

AMERICAN NURSERYMAN

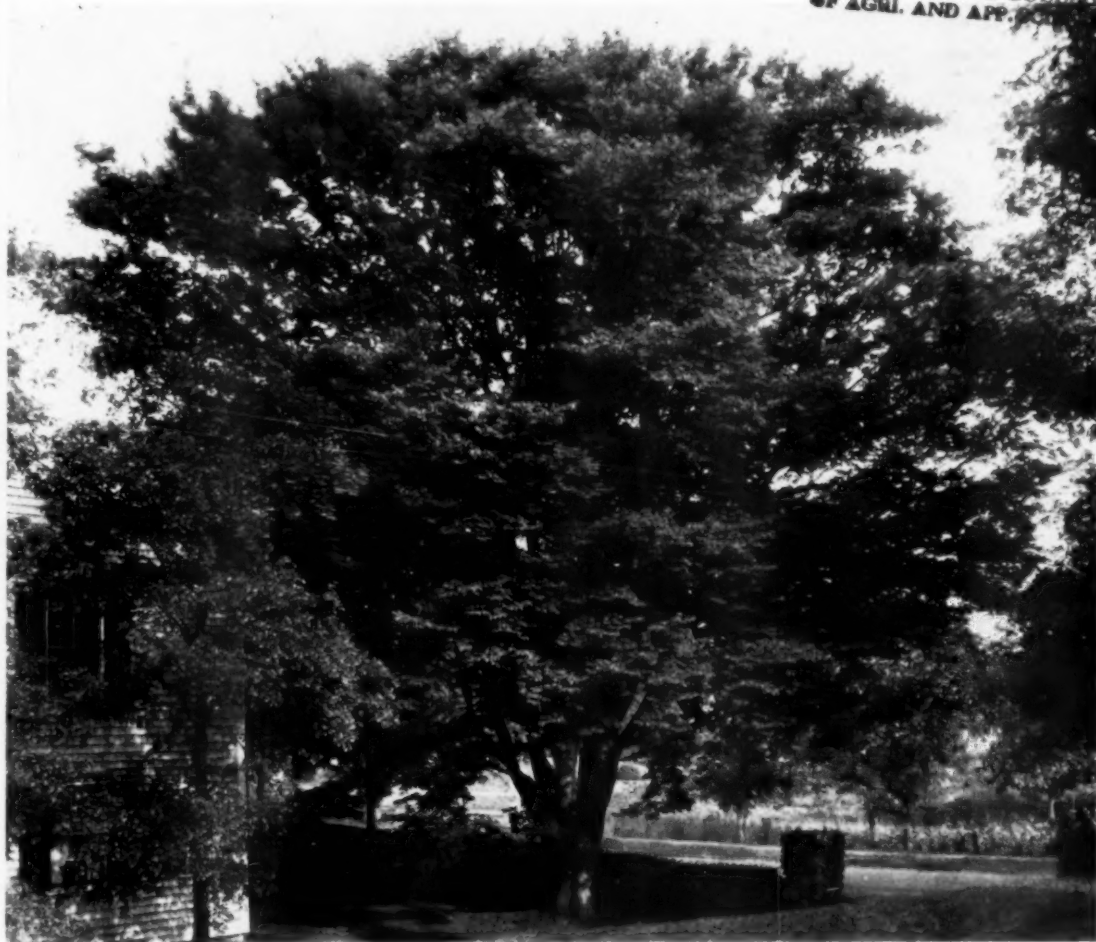
The Nurseryman's Forte: To Make America More Beautiful and Fruitful

MARCH 15, 1948

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SEEDS

TREE—SHRUB—PERENNIAL
FLOWER—VEGETABLE

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Free catalog "Seeds for Nurserymen."

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All Shrubs are well grown, bushy stock, liberally graded to please retail and landscape trade. See our February 26, 1948, Bulletin No. 1 with grade counts for complete offering. Write for your copy. RUSH ORDERS handled promptly.

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	Per 100
300 18 to 24 inches	\$22.00
980 2 to 3 feet	30.00
300 3 to 4 feet	40.00

Almond, Pink

100 18 to 24 inches	35.00
160 2 to 3 feet	45.00
210 3 to 4 feet	50.00

Berberis Thunbergi

2600 12 to 15 inches	14.00
7400 15 to 18 inches	18.00
3800 18 to 24 inches	22.00
5100 2 to 2 1/2 feet	28.00
330 2 1/2 to 3 feet	35.00

Buckthorn, Cathartica

1000 18 to 24 inches	12.00
1300 2 to 3 feet	16.00
100 3 to 4 feet	22.00

Buddleia Charming

630 No. 1	25.00
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Buddleia Dubonnet

360 Medium	18.00
820 No. 1	22.00

Buddleia Ile de France

2400 No. 1	22.00
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Buddleia White Bouquet

600 No. 1	40.00
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Callicarpa Dichotoma

400 18 to 24 inches	25.00
200 2 to 3 feet	30.00

Cornus Alba Sibirica

1600 18 to 24 inches	22.00
2400 2 to 3 feet	30.00
1800 3 to 4 feet	35.00

Cornus Goldentwig

1000 18 to 24 inches	25.00
1800 2 to 3 feet	30.00
1200 3 to 4 feet	40.00

Cornus Racemosa

200 18 to 24 inches	30.00
100 2 to 3 feet	40.00

Cydonia Japonica

400 12 to 18 inches	16.00
100 18 to 24 inches	20.00
500 2 to 3 feet	25.00
400 3 to 4 feet	30.00

Deutzia Gracilis

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Deutzia Lemoine

200 9 to 12 inches	16.00
800 12 to 18 inches	22.00

Deutzia Pride of Rochester

2000 2 to 3 feet	27.00
1400 3 to 4 feet	35.00

Elaeagnus Angustifolia

400 2 to 3 feet	27.00
600 3 to 4 feet	35.00
300 4 to 5 feet	50.00

Euonymus Yedoensis

300 12 to 18 inches	16.00
260 18 to 24 inches	22.00

Forsythia Intermedia

900 12 to 18 inches	14.00
1100 18 to 24 inches	20.00
400 2 to 3 feet	30.00

Forsythia Intermedia Spectabilis

	Per 100
1800 12 to 18 inches	\$14.00
2600 18 to 24 inches	20.00
1100 2 to 3 feet	27.00

Hydrangea Arborescens Grandiflora

1100 3 to 4 feet	55.00
360 2 to 3 feet	50.00

Hydrangea Paniculata Grandiflora

3100 12 to 18 inches	25.00
4000 18 to 24 inches	35.00
3400 2 to 3 feet	45.00
1600 3 to 3 1/2 feet	50.00

Kerria Japonica Pleniflora,

(Double Kerria)	
800 12 to 18 inches	27.00
240 18 to 24 inches	40.00

Lilac, Chinese (Rothomagensis)

600 18 to 24 inches	28.00
2400 2 to 3 feet	32.00
600 3 to 4 feet	40.00
508 4 to 5 feet	55.00

Philadelphus Coronarius

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1400 12 to 18 inches	14.00
1000 18 to 24 inches	20.00
600 2 to 3 feet	30.00

Philadelphus Lemoine

900 18 to 24 inches	25.00
800 2 to 3 feet	32.00

Philadelphus Virginialis

1100 18 to 24 inches	40.00
400 2 to 3 feet	50.00
1300 3 to 4 feet	55.00

Rhodotypos Kerrioides

400 12 to 18 inches	22.00
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Rose Acacia (Robina Hispida)

500 18 to 24 inches	30.00
600 2 to 3 feet	40.00
200 3 to 4 feet	50.00

Salix Discolor (Pussy Willow)

800 12 to 18 inches	14.00
200 4 to 5 feet	50.00
400 5 to 6 feet	70.00

Spiraea Anthony Waterer

	Per 100
300 15 to 18 inches	\$30.00
400 18 to 24 inches	35.00
300 2 to 2 1/2 feet	40.00

Spiraea Billiardi

2000 18 to 24 inches	22.00
1800 2 to 3 feet	27.00
600 3 to 4 feet	35.00

Spiraea Bumalda Superba

200 12 to 18 inches	18.00
400 18 to 24 inches	25.00

Spiraea Froebeli

2400 12 to 18 inches	18.00
2100 18 to 24 inches	22.00

Spiraea Vanhouttei

4000 18 to 24 inches	14.00
4000 2 to 3 feet	20.00
900 3 to 4 feet	35.00

Symphoricarpos Alba

900 18 to 24 inches	16.00
1200 2 to 3 feet	22.00
900 3 to 4 feet	30.00

Symphoricarpos Vulgaris

1600 12 to 18 inches	12.00
4200 18 to 24 inches	16.00
2100 2 to 3 feet	22.00

Viburnum Dentatum

300 18 to 24 inches	25.00
490 2 to 3 feet	30.00
700 3 to 4 feet	40.00
400 4 to 5 feet	45.00

Viburnum Opulus Sterile

(Snowball)	
590 9 to 12 inches	15.00
1100 12 to 18 inches	25.00

Weigela Eva Rathke

1100 9 to 12 inches	15.00
1800 12 to 18 inches	25.00
600 18 to 24 inches	35.00
900 2 to 3 feet	45.00

Weigela Rosea

1100 9 to 12 inches	10.00
1600 12 to 18 inches	14.00
960 18 to 24 inches	20.00

HEDGING

Berberis Atropurpurea

4100 6 to 12 inches, 1-year seedlings	Per 1000
	\$ 45.00

Berberis Thunbergi

16,000 9 to 12 inches, 2-year branched seedlings	60.00
4700 12 to 18 inches, 2-year branched seedlings	80.00
6000 18 to 24 inches, 3-year branched seedlings	100.00
1100 2 to 3 feet, 2-year branched seedlings	140.00

Berberis (Truehedge Columnberry)

900 15 to 18 inches	320.00
1100 18 to 24 inches	400.00
400 2 to 2 1/2 feet	500.00

Privet, Amur River North

These are heavy rooted and are well branched. The 2 to 3-ft. and 3 to 4-ft. grades are splendid stock for cash-and-carry trade and for those wanting to secure immediate results.	
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6000 12 to 18 inches, 3 canes and up	60.00
11,000 18 to 24 inches, 3 canes and up	80.00
9000 2 to 3 feet, 2 and 3 canes	80.00
16,000 2 to 3 feet, 4 canes and up	100.00
4000 3 to 4 feet, 4 canes and up	140.00
900 3 to 4 feet, 5 canes and up	160.00

Privet, California

11,000 12 to 18 inches, 3 canes and up	50.00
6000 18 to 24 inches, 3 canes and up	60.00
6000 2 to 3 feet, 2 canes and up	60.00
6000 2 to 3 feet, 4 canes and up	80.00
2200 3 to 4 feet, 4 canes and up	100.00
700 3 to 4 feet, 5 canes and up	120.00

Privet, Ibolium

4000 18 to 24 inches, 3 canes and up	75.00
4000 2 to 3 feet, 2 and 3 canes	75.00
2100 2 to 3 feet, 4 canes and up	100.00
1000 3 to 4 feet, 4 canes and up	140.00

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"One of America's Foremost Nurseries"

MOUNT ARBOR NURSERIES
SHENANDOAH, IOWA



E.S. Welch PRES.

AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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AGERATUM						CESLOIA					LOBELIA					
mex. Blue Cap, very df.	%	oz.	\$0.45			childsi, crimson, pink or yellow					cardinalis	%	oz.	\$0.45		
mex. Blue Perfection, semidf.	%	oz.	.35			cristata, dwarf, mixed	each	%	oz.	\$0.30	erinus, blue	%	oz.	.30		
mex. Fairy Pink,						cristata, tall, mixed		%	oz.	.30	erinus Crystal Palace, compact	%	oz.	.35		
light salmon color	%	oz.	.45			plumosa, df., Flery Feather		%	oz.	.45	erinus Emperor William, blue	%	oz.	.35		
mex. Midget Blue, rich blue,						plumosa, df., Golden Feather		%	oz.	.45	LUPULUS					
compact	%	oz.	.70			plumosa, tall, finest mixed		%	oz.	.75	annual, small seeded, mixed	%	oz.	.25		
mex. Purple Perfection	%	oz.	.35			plumosa, tall, Thompson Magnolia		%	oz.	.35	Harvey Gt. King, blue, rosy-purple,	%	oz.	.35		
mex. Dwarf, white	%	oz.	.40			mixed		%	oz.	.35	Harvey Gt. King, white	%	oz.	.35		
mex., blue	%	oz.	.25								Hartweg's King	%	oz.	.35		

HERBST BROTHERS Est. 1876 92 Warren St. New York 7, N. Y.

AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*

Joan L. Kilner, *Assistant Editor*

Editorial

READY PROSPECTS.

Not a few retail nurserymen follow home-building records in their communities to secure the names of the prospective owners in the hope of obtaining landscape jobs. Frequently they complain that the efforts too often go unrewarded or the returns are not adequate. Either the new homeowner spends so much on the construction of his house that he has little left for plants, or some competitor takes the job at too low a price.

Today, when building costs are soaring, the complaint is more often true. Most of the homes, too, are being put up for persons in lower income brackets, who must scrape to buy a home at all.

Nurserymen given to this complaint have many ready prospects in the owners who have plantings about their homes and have lived in them for some years. The longer the owners have lived in their homes, the greater the likelihood that the grounds need additional plantings or renovation of the old.

In the better residential sections of your town, city or suburb are many fine homes, belonging to persons in respectable income brackets, that display a few worn evergreens or a few straggly shrubs that are probably the remains of a landscape job done when the residence was new. The owners may have become used to them or may have postponed attention because yard help has been hard to get in the war years and since.

But these homeowners are fond of attractive things, in home furnishings, motorcars and the like. The chances are that they have seen little advertising of plants—compared to those other items—in the general magazines they read. They probably have received no sales literature, let alone a visit, from the local nurseryman in years.

If you have not booked all the planting you can do this spring, here is a group of ready prospects more important, as a class, than the owners of homes now in process of construction. Send them a circular or, better, a letter. Or advertise in the local paper. Invite these one-time buyers to renew their interest in the plantings about their homes.

The Mirror of the Trade

WINS WALL STREET STORY.

Current market opportunities for nurserymen were the subject of a front-page article, over two columns in length, in the Wall Street Journal of February 17, written by an assistant editor of the financial daily newspaper. From the numerous quotations, a number of leading firms had been consulted, and despite an occasional confusion of greenhouse and nursery terms, the article was generally accurate and quite interesting.

Industrial landscaping received first attention, with instances cited of developments in this field. Comment on the increased buying of ornamentals by farmers received support in quotations by North Dakota and New Jersey firms. Housing prospects were discussed in their relation to this market.

Quotations from catalogs to show the rise in prices in recent years were accompanied by figures as to increases in costs. Instances given were box lumber, up from \$29.09 per thousand board feet to \$64.67; burlap squares, up from \$18 per thousand to \$50; sphagnum moss, 55 cents per bale to \$1.25; twine, 12 cents per pound to 31 cents. As evidence of higher transportation costs, a New York firm was quoted: "Two years ago it cost \$2.47 to express a 100-pound order from New York to Chicago; today the same shipment costs \$5.88." A Connecticut firm reported the cost of shipping a carload of young fruit trees from its Washington state fields as \$800, more than double the old figure. A midwestern firm reported an increase of twenty-nine per cent in shipping costs since 1940, but tonnage was up only nine per cent.

The article concluded with references to the mechanization of nursery operations and the effectiveness of new chemicals as insecticides and weed killers.

MARKET FOR MORE TREES.

In most of our larger cities and towns, more years have gone by without any considerable planting of trees in private and public areas than is generally realized. During the early years of the depression, park and highway planting in connection with WPA programs enabled older nursery firms to move larger specimens, usually at unprofitable prices. Not all of these survived the following years of neglect, when the war

succeeded the WPA as an employer of surplus labor. In the decade since, practically no plantings have been made.

The situation was called to the attention of the nation's second largest city by a report of the City Club of Chicago, a long-established organization of civic-minded individuals. Urging a tree-planting program for beautification and health, the club's planning and housing committee asserted that in recent years 80,000 trees have been removed in that city, with virtually no replacements. It is estimated that a minimum of 400,000 trees should be planted.

Such a need for trees is repeated in nearly every municipality. In few localities has any considerable amount of planting been done. The total requirements of the nation would reach a tremendous figure. Probably there are not sufficient large specimens in the nurseries to meet it. But civic movements of this type move slowly, and no doubt the present young trees will reach ample size by the time their purchase is sought.

This large market is one that scarcely can be developed by individual nurserymen or their salesmen. Here is a need for the public relations program of our national association and our state associations of nurserymen. By supporting and giving wider voice to the findings of civic organizations such as that mentioned above, our associations can make the public in general, and the political leaders in particular, aware of the loss of trees from our avenues, parks and highways. Much time has been necessarily lost in consequence of the war. We must make it up soon, in order to bring back greenness of trees to our cities.

A. M. S. PRIDHAM, associate professor of ornamental horticulture at Cornell University, Ithaca, is planning a trip to New Zealand and will not return until September.

PICTURED in a recent Sunday edition of the Oregon Journal, a Portland newspaper which featured a story on the meeting of the Oregon Nurserymen's Association held at Portland January 20, were Avery H. Steinmetz, Mike Dering, Sigward Edstrom, F. A. Doerfler and Julia Hausch, who are president, vice-president, treasurer, trustee and secretary, respectively, of the association.

Midwest Shade Tree Conference

By L. C. Chadwick

Nearly 300 persons attended the third annual meeting of the Midwestern chapter of the National Shade Tree Conference February 19 and 20 at the La Salle hotel, Chicago, Ill. While the majority of those attending were from the middle west, representatives from several states outside the region were present.

The following officers were elected: President, J. C. Carter, plant pathologist, Illinois State Natural History Survey, Urbana, Ill.; vice-president, Noel B. Wysong, Cook county forest preserve district, River Forest, Ill., and secretary-treasurer, Alfred F. Carlstrom, Chicago park district, Chicago, Ill. The following members were appointed to the board of governors of the National Shade Tree Conference and will serve until July 31, 1950: G. B. Caskey, superintendent, Winnetka park district, Winnetka, Ill.; Norman Klein, Mid-West Tree Experts, Kansas City, Mo., and F. J. Pipal, park department, Omaha, Neb. The following persons were elected to serve as alternates for the board of governors: Clancy I. Baker, Chicago park district, Chicago, Ill.; Marvin Stevens, Glenview, Ill.; Howard G. Muellner, city forester, Wauwatosa, Wis.; Frank Hanbury, Hanbury Tree Expert Co., Peoria, Ill., and Harry A. Morrison, Thomas J. Lynch, Inc., Glencoe, Ill.

After a few words of welcome from C. L. Wachtel, Wachtel Tree Science & Service Co., Wauwatosa, Wis., president of the Midwestern chapter, the program opened with a discussion of "The Menace of Oak Wilt" by Dr. A. J. Riker, department of plant pathology, University of Wisconsin, Madison. Dr. Riker emphasized the fact that oaks may die from many causes, among which are shoestring fungus, 2-line chestnut borer, deficiency of nutrient elements and soil conditions. Such causes, however, are not responsible for epidemic dying of trees. There appears to be no correlation between site and the presence of oak wilt.

The red and black oaks are the most susceptible to oak wilt. Bur and pin oaks are intermediate in susceptibility, while the white oaks are relatively resistant and may recover following an infection. Oak wilt has been found in Wisconsin, Minnesota, Iowa, Illinois and Missouri. It is particularly rampant along the Wisconsin-Illinois state line. The first case of oak wilt was confirmed in 1928.

Oak wilt is caused by a fungus, and the first symptoms are a peculiar browning of the petiole, followed by a bronzing and browning of the top leaves. Sucker branches and feather growth often develop, but these growths soon wilt. These early symptoms resemble to some extent iron deficiency in pin oak. The bark loosens and comes off more rapidly on trees killed by oak wilt than on trees dying from other causes. When one tree of a pair developing from an early cutting becomes infected,



Dr. J. Cedric Carter.

both trees are almost always killed. All trees in a closely planted group may be killed if one tree becomes infected with wilt. This suggests that there may be some root transmittal of the disease. Trees inoculated near the end of June or in July may be killed in four to six weeks.

The dying of oaks from wilt becomes most prevalent after July 4, continuing through July and August. It is not known how the disease is spread, but it may be by beetles or other insects, squirrels or flickers. Methods of control are not known. The wilt cannot be pruned out in red and black oaks, and it is not known whether or not it may be pruned out in white oaks. No specimens of red, black or pin oaks have been found that seemed to be resistant. There is no evidence so far that the fungus is air-borne. D-D used in the soil as a barrier around a wilt-infected tree did not prevent spread of the disease. It is recommended that trees

killed by the wilt be removed at once, stump and all, and destroyed.

J. E. McDonnell, Sherwin-Williams Co., Milwaukee, Wis., spoke on "Horticulture's New Tool—2,4-D." A film was shown depicting the value of 2,4-D for weed control in farm crops, especially grains. Low-gallonage applicators, equipped with special nozzles and hooded booms to prevent drift, were shown. Mr. McDonnell stated that 2,4-D, 2,4,5 and ammonium sulphate were the most important weed killers, but that 2,4,5 may be better for killing woody plants than 2,4-D. The two materials may be combined. Sumac can be killed with one application of 2,4-D, but two or three applications may be necessary to kill willows. The esters are better than the salts, since they penetrate more rapidly, and there is less loss of effectiveness if rains fall soon after the application.

N. B. Wysong presided at the afternoon session, which was opened with a discussion of "Control of Shade Tree Insects" by L. L. English, entomologist, Illinois State Natural History Survey, Urbana, Ill.

Parathion was recommended for trial to control scales.

Trees affected with borers should be wrapped and kept vigorous and healthy.

DDT was recommended for bark beetles. For European bark beetles, apply a two per cent emulsion of DDT. Apply the first application before the buds open and the second about July 1.

For red spider, either Dowspray 17, three-fourths pound per 100 gallons of water, or HETP, 1 to 1,200 to 1 to 1,600, is recommended. The latter is not effective against eggs in the resting stage. Three to five applications are needed. Parathion is effective for red spider, but its use is still experimental.

DDT is effective on box elder bug. No effective control could be recommended for galls.

To control ants, Chlordane, one-eighth teaspoonful of fifty per cent material to each hill, was recommended.

This interesting discussion was followed by another timely one in a similar vein entitled "Recent Advances in Insecticides," given by George C. Decker, head of the section of economic entomology, Illinois State Natural History Survey, Urbana, Ill.

Dr. Decker stated that it was al-

most impossible to keep up with the new insecticides and fungicides. These new materials should be used with caution because many of them have not been adequately tested.

DDT can be used as a dust or in solution. It has a long residual effect. Do not expect immediate death of the insect from DDT. It is not a cure-all and is not effective against grasshoppers or chinch bugs.

DDD, Rothane, is less toxic, is a little slower in action and has less residual effect than DDT. It is less toxic to man and animals. DDD can be used for controlling pests on water plants when fish are present. It may be used in place of DDT for safety.

BHC, benzene hexachloride, acts as a stomach poison, contact insecticide and fumigant. It is quick in its action. Its residual life is short because of its volatility. BHC has a foul, musty odor which is objectionable. Fruits and vegetables sprayed with BHC taste bad when cooked. This insecticide may retard plant growth. It is a good control for plum curculio and should be used early in the season. It also controls aphids.

Chlordane is slow in its action and relatively long-lasting, being between DDT and BHC in these respects. It can be used as a stomach poison, contact insecticide and fumigant. It may be used as dust, wettable powders, emulsions and oil concentrates. Chlordane will control household pests, such as silver fish and roaches. It is more effective than DDT, except for fly control. Chlordane is outstanding for grasshopper control, one-half pound per acre. It is also good for control of wireworms, maggots and plum curculio.

Toxaphene, intermediate in action and lasting characteristics, is more toxic than DDT when taken internally. There is probably no danger from it if used correctly.

HETP, HEPP and 3422 are extremely toxic to many insects. These materials must be used as soon as prepared, for they lose their effectiveness if they stand for twenty-four hours. They must be used with caution and should especially be kept off one's person and out of one's eyes. They are excellent for control of red spiders and aphids.

The new label law should help the buyer in purchasing insecticides and fungicides.

"Drainage in Relation to Trees" was discussed by N. Y. Alvis, permit engineer, Cook county forest preserve district, River Forest, Ill., who stated that plans of city engineers should be checked to prevent placing sewer lines too close to trees and to prevent

the unnecessary cutting of roots. Avoid planting trees close to gas valves, he advised. When open ditches are put in, avoid running them beside the trees. It is cheaper to tunnel under the trees than it is to cut them and dig out the stump.

Mr. Alvis stated that sanitary sewers kill more trees than any other cause. All sanitary sewers leak. Tree men should insist that cities install good sewer lines. Large amounts of water are taken out of the soil by the sewer lines, and it is little wonder that trees near these lines suffer. The infiltration is most severe the first few years after the tile lines are installed. All sewer lines should have



C. L. Wachtel.

leakproof and root-proof joints. This is particularly important when the lines run through wooded areas and beside lawn trees. Cement mortar joints are not good enough; they shrink and crack. Hot tar joints are not satisfactory. Oakum used with an asphalt base makes a good joint as do some of the plastics. Cast-iron pipe makes the best sewers. It costs only about \$9 to assure a leakproof, root-proof line along a 50-foot lot in comparison with the great cost of removing roots from sewers.

According to Mr. Alvis, some drainage is going to take place in the ditch regardless of the type of line used because of the looseness of the soil along the line. Insist on the soil's being tamped firmly about the tile.

Mr. Alvis suggested that such organizations as the National Shade Tree Conference send information to municipalities and utility companies regarding tree welfare and, in conjunction with city engineers, set up standards that may be followed.

J. Lyell Clarke, sanitary engineer, Des Plaines valley mosquito abate-

ment district, Lyons, Ill., showed several slides and discussed, "Mosquito and Fly Control by Mist Spraying." Such factors as temperature, humidity and wind influence the effectiveness of the sprays. A more effective kill is obtained at lower temperatures.

A plant clinic was conducted by Dr. L. C. Chadwick, department of horticulture, Ohio State University, Columbus, the panel of experts consisting of those persons participating in the program.

Karl Dressel, department of forestry, Michigan State College, East Lansing, acted as toastmaster at the banquet in the evening, and an enjoyable program was presented.

The morning session February 20 was opened with a business meeting. Following an address by President C. L. Wachtel concerning the activities of the chapter, Noel Wysong presented the secretary-treasurer's report. Dr. L. C. Chadwick, secretary-treasurer of the National Shade Tree Conference, reported on the membership of the conference and told of the plans for the annual meeting to be held at Milwaukee, Wis., August 23 to 27.

"Sulphur Dioxide Injury to Vegetation" was discussed by E. R. Spencer, consulting botanist and plant pathologist, Lebanon, Ill.

Sulphur dioxide injury is caused by the gas entering the leaves, which changes to sulphuric acid and causes burning in the intercostal leaf areas. Dr. Spencer referred to the work of P. J. O'Hara, who rated some 345 species and varieties of plants on the basis of their susceptibility to injury. Alfalfa was rated the most susceptible. Among other susceptible plants are peonies, apples, polygonums, evening primroses and *Rhus glabra*. Most of the shade trees are resistant. The blackjack oak is the most susceptible of the oaks, Dr. Spencer stated.

Sickly plants are always more susceptible to injury than healthy ones. Young leaves are not so easily injured as older ones. Severe injury will result if sulphur dioxide is present in quantities of five ppm, if the temperature is 80 degrees Fahrenheit or above and the wind velocity is not more than five miles per hour.

A round-table discussion of "Tree Ailments" concluded the morning session. J. C. Carter, plant pathologist, Illinois State Natural History Survey, Urbana, Ill., conducted the panel assisted by Forrest Strong, department of botany, Michigan State College, East Lansing, and Paul E. Tilford, executive secretary, National Arborist Association, Wooster, O.

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Pennsylvania Nurserymen's Conference

By R. P. Meahl

An excellent attendance was noted at the first day's session of the nurserymen's conference sponsored by the department of horticulture, Pennsylvania State College, February 17 to 19 at State College.

Dr. Warren B. Mack, head of the department of horticulture, welcomed the group to the campus. He said that such visits were always an inspiration to members of the college staff since they gained fresh viewpoints and enthusiasm from the commercial men. He expressed the hope that the nurserymen would have a profitable, instructive and enjoyable stay at the college.

Dr. Henry Menusan, Jr., associate professor of entomology, spoke on "Insecticides for Nurserymen." He admitted that not so much was known about insects affecting nursery material as those affecting some other crops. The field is large, and it has not been possible to study all insects or to test all insecticides. New materials are being developed all the time, and some show great promise. However, until such materials are thoroughly tested, it is better to stay with the old remedies whose effects and reactions are known, even though 100 per cent control is not secured. Dr. Menusan felt that, in time, a spray schedule such as is now used by orchardists would be worked out, but that it would take time. There are too many insects and too many plants for it to be worked out immediately. He urged the nurserymen to apply sprays at the right time. Often the spray is not applied until the insect is ready to leave, anyway, and thus the spray does no good, yet receives the credit for removing the pest. In order to determine the correct time to apply sprays, the habits of the insects must be studied. Dr. Menusan recommended that each nurseryman purchase a 10-power hand lens with which to study the life cycles of the various insects.

For control of scale insects, Dr. Menusan recommended dormant spraying with miscible oil. It can be used on plants without injury, with a few exceptions, notably sugar maple and sometimes boxwood. Recent work indicates that freezing temperatures after applications of oil will not cause injury. More important is the type of bark of the plant. Generally, on thick-barked plants applications of oil are safe, but may be dangerous on thin-barked ones. The glaucous

bloom on certain evergreens will be lost temporarily, but will return. If the scale insects are missed during the dormant season, nicotine with soap or oil may be used in the summer if applied on the young insects. However, this is more expensive than using oil.

During April, aphids and galls on spruce should be controlled with oil. In May, spittle bugs and leaf miners are present. They can be controlled with nicotine or DDT, two pounds fifty per cent wettable powder in 100 gallons of water. When applying spray material it is important to obtain complete coverage.

In June, bagworms should be controlled with lead arsenate, four to five pounds per 100 gallons of water. It is important to apply the spray early when the worms are young. DDT has been successful in some cases, but not always. Dr. Menusan recommended DDT for pine-shoot moth and also for elm leaf beetle and locust leaf miner. Arsenate of lead also can be used for the last two and should be applied when leaves are about full grown.

During July, Japanese beetles and mites are destructive to all types of crops. For controlling mites, rotenone was recommended, and wettable sulphur was also suggested. Timeliness of application is extremely important. DDT should be used for Japanese beetles; an application lasts about one month.

DDT was recommended for treating lawns. From thirty to fifty pounds of fifty per cent DDT powder per acre should be applied before seeding. This is more economical than using arsenate of lead.

In discussing "The Identification of Trees in Winter," R. P. Meahl, associate professor of ornamental horticulture, presented an abbreviated key of winter characteristics. He explained how a key is developed by separating plants with similar characteristics, such as opposite or alternate buds, into groups. Then within each group further differences are discovered until the plant can be positively identified. A practical demonstration in using the key was conducted when twenty-five twig specimens of deciduous trees were circulated, the nurserymen identifying as many as possible. The consensus was that identification is much more difficult with only a twig as a sample than when the entire plant can be observed.

Louis E. Wissenbach, Squirrel Hill Nurseries, Pittsburgh, spoke on "Problems of the City Nurseryman." He stated that the location of the city nursery is important and should be on a good street. The grounds should provide bed space for the plants ready for sale, storage space for partially grown plants and walks for customers to reach salable plants. The half-grown material should be kept in the background; this usually is not ready to sell. The finished stock is placed to the foreground for immediate sale. The office should be close to the sales ground for ease of operation.

Mr. Wissenbach said that at his nursery they preferred to keep plants in the soil until sold. Deciduous plants are planted directly in the soil, while evergreens are first balled and burlapped and then heeled in, in the soil. Under such conditions the burlap rots badly, but this may be helped by treating the burlap with Cuprinol. Herbaceous perennials and annuals are items which work well with shrubs and evergreens. Roses also are good-selling items. The perennials and annuals may be grown by the nurseryman himself, especially if he has a greenhouse or hotbed. Stock must be sold quickly or the foliage tends to become somewhat bedraggled.

The city nurseryman is primarily a merchandiser and a landscape contractor, rather than a grower. Side lines such as grass seeds, fertilizers and garden tools are profitable and are a means of interesting people in nursery stock. A head salesman is needed, one who can answer questions concerning the plants and their uses.

One of the most effective ways to secure new customers is by the direct-mail method, Mr. Wissenbach said. The mailing list should be selected with care and study, instead of buying a list already made up. A few hundred names should be enough with which to start. After customers have arrived, the plants must be priced right. It is also important that confidence in the nursery be established and maintained. The organization must impress upon the customers that it has the knowledge to help with their problems. It must be ready to explain the habits and uses of plants and know the right plant for the right place.

[Continued on page 53.]

Citations for Business Beautification

The extent to which business enterprises, big and little, have recognized the value of landscape planting in its various aspects is only realized by those who have paid particular thought to this aesthetic development. The past year has seen more widespread recognition of this process of business beautification than before. Examples were brought together in the brochure, "Industry Need Not Be Ugly," published a few months ago by the National Landscape Nurserymen's Association to draw attention to this very thing. A recent issue of the Chicago Sunday Tribune carried a page of photographs headed "Attractive Factory Buildings Add Beauty to North Side Communities," and the examples gave as much prominence to the plantings of trees and shrubs as to the architecture of the buildings.

The past year saw a more definite recognition in the award of citations by the Garden Club of New Jersey to business establishments whose properties added to the appearance of the highways of that state. This procedure reverses the old-time process of depicting the eyesores on highways with the urging that they be condemned; rather, the incentive of good example is provided by such awards.

The first step in the long-range highway beautification program undertaken by the Garden Club of New Jersey was the awarding of citations to thirty-seven business establishments meeting standards of landscaping, good taste, safety and sanitation.

The judging, which will be continued on an annual basis, was restricted this year to establishments abutting state highways. More than 100 members of the garden club traveled over more than 1,700 miles of state highways and inspected every commercial building abutting these roads, with the exception of hotels and tourist cabins.

Cooperating in the program were the New Jersey council of the department of economic development, state highway department, motor vehicle department, state department of health, department of conservation and development and New Jersey chamber of commerce.

After establishments were recommended for approval by members of the garden club, the premises were inspected by representatives of state agencies on conformity with state standards.

Mrs. Laurance N. Wilson, of South Orange, president of the Garden Club of New Jersey, made the awards at a luncheon meeting at Trenton. At the meeting Mrs. Wilson announced that the program will be continued and will be extended to cover business establishments on county roads as well as state highways.

Several outstanding establishments among those receiving the New Jersey awards are shown on the opposite page. In the upper left-hand illustration is shown Manning's Wayside furniture shop, at Lawrenceville, N. J., in which the architecture reflects the business and the planting is in keeping. The lower left-hand picture is of the main entrance grounds, with fountain, of the Dama Chocolate Co., at Paramus, N. J., the photograph being taken away from the building in order to show the full garden and therefore including the less attractive aspects of the highway beyond. In the upper right-hand picture is the building of the Industrial Tape Corp., at New Brunswick, N. J., quite modernistic in type, with evergreen plantings in keeping. The lower right-hand picture, of Hans Christian Andersen restaurant, Rochelle Park, N. J., shows a planting of considerably longer development than the other three and consequently more luxurious growth. These four diverse illustrations indicate what can be done by business firms of varying size and type.

In some cases the planting is a bid for public interest and attraction, particularly in the case of a roadside restaurant. The grounds of the furniture shop are of distinctive advertising value and certainly more attractive than a billboard. Landscaping of factory buildings creates public favor and good will, though visitors may not be sought. More important is the reaction of employees, who take satisfaction and pride in their better surroundings.

N. L. N. A. STUDY REVEALS PERSONNEL NEEDS.

Results of a questionnaire sent out by the educational committee of the National Landscape Nurserymen's Association to members of the association reveal what the landscape business wants in the way of trained personnel. Replies to the questionnaire show that the landscape nursery business is a definite field of employ-

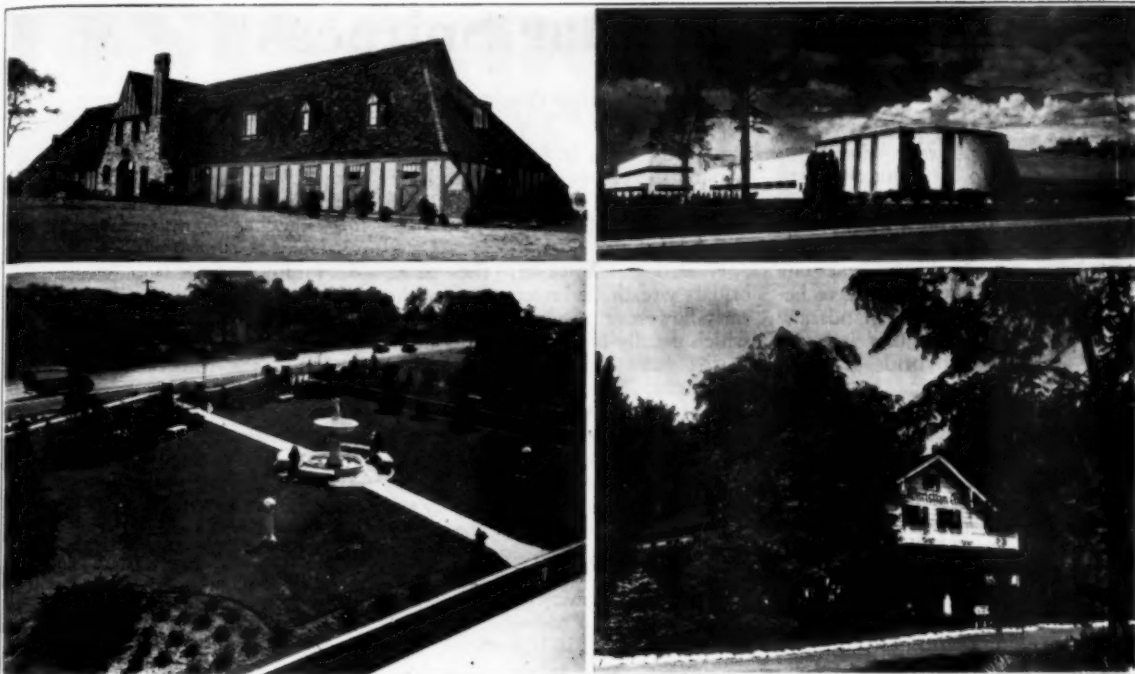
ment for college graduates who have the proper training. Since the replies received were from a fair cross section of the industry, it is believed that this would mean a chance for employment of about 300 men. The combination designer and salesman is most in demand. The survey reveals that the average salary for a landscape man, \$3,744.40 per year, is attractive enough to warrant college training even though it is not high.

Among the qualifications of most importance to employers are a knowledge of plant materials and engineering and artistic and design ability. It would require a 4-year course at a college large enough and diversified enough to be able to give instruction in the various fields. A 2-year course might be able to turn out good planting foremen, but it was the opinion of the committee that it could not properly prepare a man with either enough design training or engineering training to enable him to become a combination designer-salesman.

Many of the nurserymen indicated that they did not wish their men to have had previous sales training, which might indicate that the college training should omit sales training. It might also mean that a much larger number of men will have to be trained and will eventually become successful landscape designers and salesmen, for sales ability is not a common trait. Some of those who did not become first-rate salesmen could probably be used in the second highest field of employment as landscape foremen.

Of the ninety-some members of the N. L. N. A. who answered the questionnaire, thirty-eight had a total of seventy-six college-trained landscape men in their employ, while fifty-five did not employ any college-trained men. Of these college-trained employees, forty-four had majored in landscape architecture and fifteen in horticulture. Forty-nine of them were holding down jobs as landscape architects, and six were owners of their own businesses.

In answer to the question of whether other positions in the firm might be filled by well trained landscape men either now or in the future, eighty-six answered yes and said that a total of 137 men would be needed by their firms. Six replied no. Of those who answered yes, most indicated that a combination landscape designer and salesman was most



Four Business Establishments Receiving Citations for Landscaping from Garden Club of New Jersey.

needed. Other positions to be filled, in order of employer's preference were landscape foreman or supervisor, straight salesman, landscape designer with little or no selling and other work mostly not landscape work.

In answer to the question of what fields of endeavor would need the greatest proficiency and training, remembering that colleges cannot give experience, a knowledge of plant materials was voted most desirable, with artistic or design ability second. Third came engineering ability, including surveys, estimates, layout work, etc., followed by horticultural knowledge of soils and planting methods, sales training, management training including personnel and organization.

The nurserymen queried indicated that in the states where they were located there were colleges giving landscape training. And they said that they would be willing to employ one or more college men for cooperative training for part of a year.

The educational committee of the N. L. N. A., of which Homer K. Dodge, Landscape Service Co., Framingham, Mass., is chairman, is going to endeavor to work out a program of standards for graduates of landscape architecture, ornamental horticulture, nursery practice and other fields for the information of colleges and universities with the aim of making graduates of these departments more useful to their employers.

KANSAS LANDSCAPE MEN WILL SPONSOR AWARD.

At its annual meeting February 22 at Manhattan, the Association of Kansas Landscape Architects voted to sponsor an annual award to be presented each year to the outstanding graduating senior in the curricula of landscape design and ornamental horticulture at Kansas State College. Both man and woman students will be eligible to receive the award, which will be inaugurated this year.

In addition to a substantial cash sum, the initiation fee and dues for one year for membership in the Association of Kansas Landscape Architects will be provided the recipient upon his graduation, and he will also be presented with an honorary gold key to wear. A permanent plaque will be erected in the library of the horticultural department at the college, and it will bear, in engraved letters, the name of the student winner for each year.

Association members of the committee in charge of the arrangements for the award in 1948 are George Fisher, Salina, chairman, and Franklin Rose and Homer Jamieson, both of Topeka. The student will be selected by members of the faculty of Kansas State College.

It was also voted to lend substantial aid for increasing the shrub and broad-leaved evergreen collection on the campus of Kansas State College.

The association will use its influ-

ence to urge the governor of Kansas to issue the proclamation of Arbor day at once, instead of waiting until nearer March 26, the date set by law. It is believed that an earlier proclamation will allow more time to prepare for an effective observance of the day.

Ray Keen, instructor in plant materials at Kansas State College, showed beautiful Kodachrome slides of missions in California, which he had visited the past summer.

Wichita was selected as the location for the next regular meeting of the association, which will be held in June. G. F.

THE new address of the Michigan Fruit Growers Nurseries, Benton Harbor, Mich., is 1500 United States Route 12, Benton Harbor.

A RETAIL florists' shop has been added by Mr. and Mrs. L. L. Dixon to their landscaping business at Burnet, Tex.

THE new address of William Mihelick, 15320 Crescentwood avenue, East Detroit, Mich., is 22055 Grove avenue, East Detroit.

LOWELL MOORE, formerly with the Gaar Nurseries, Chesterfield, Ind., is now at Purdue University, where he will teach classes in nursery management in the new courses in nursery practices to be offered in the fall and will assist Prof. R. B. Hull in his rural beautification projects as extension landscape architect.

The Popular Spiraeas

By George Graves

Spiraeas are hardy, deciduous shrubs native to temperate North America and Asia. More than 100 species are known in the wilds of these areas. Although most of them may have been cultivated at one time or another, those that have become most popular as landscape plants—almost too popular in some cases—are largely hybrids or selections of garden origin.

Such a plant is the hybrid *Spiraea vanhouttei*, which even persons most unfamiliar with plants recognize when it is in bloom. So many specimens of this hybrid species have been planted during the past three-quarters of a century that it has come to typify spiraeas in general in the public's mind. Resulting from the crossing of two eastern Asiatic species, this outstanding shrub has proved so attractive, so easy to propagate and so amenable to garden culture over such a wide area that, like the forsythia and the Japanese barberry, it has been sadly overplanted. Too often it has been lined up in hedge arrangement and has had all of the beauty of its arching branches sheared away. Too frequently, also, it has been crowded in mixed plantings where it has been unable to grow to its full height and spread of six to eight feet, or it has been restricted by wrong pruning. This has been the penalty suffered for being one of the finest of the medium-textured shrubs. Perhaps moderation and thoughtfulness of use may, in the future, take this remarkably fine plant out of the banal class into which it has undeservedly fallen.

The Van Houtte variety also is representative of spiraeas in its requirements of full sun and usually well drained but not too dry soil. While variations from tolerance to dry soil to existence under fairly wet soil conditions can be detected from species to species, all of them will thrive in good garden soil. Also, most of them seem to withstand the salt spray of seashore locations fairly well. All of the white-flowered kinds seem best used as shrubs, for use as specimens or for blending into mixed plantings of deciduous, spring-flowering shrubs.

The Van Houtte spiraea also has suffered from common name trouble. It has often been and still is called bridal wreath in some parts of the country. This is not such a serious error when it is remembered that

the word spiraea is derived from the ancient Greek word for wreath or band. Thus, the whole lot of spiraeas are designated as plants for garland making.

Nowadays, however, the name bridal wreath is reserved for the early-flowering *Spiraea prunifolia*, which usually is known in cultivation in the more showy, double-flowered *S. p. plena*. This finely branched shrub opens its many small flowers in May. Ultimately, if permitted to grow unrestricted, it will develop into a spreading, 8-foot bush. Sometimes its progress is slightly lessened by the winterkilling of twig tips. The prune-like leaves turn an orange color in autumn. Like others of the early season, white-flowering spiraeas, it forces easily even when cut branches are taken indoors in late winter.

Another early season white-flowering species is *Spiraea thunbergi*, which has slender arching branches and narrow, flimsy-looking foliage on plants which seldom reach a height and spread of more than five feet. It, too, bears a profusion of tiny white flowers. Late in the season the leaves assume an orange and scarlet coloration. More often this particular phase of the garden spiraeas is represented by *Spiraea arguta*, a hybrid of *S. thunbergi*, which retains the same habit and general appearance, but is coarser in texture, grows taller and is much more showy when in bloom. This hybrid, which has come to be known as the garland spiraea, has, perhaps, the most conspicuous blooms of any of the spiraeas before the Van Houtte variety. In the past *Spiraea thunbergi* and *S. arguta* have been confused, but most nurserymen can tell the two apart at a glance.

There are at least two Asiatic spiraeas which can serve to extend the flowering season of the white-flowered kinds after the blooms of *S. vanhouttei* fade. One is a rather tall, spreading, but stiff-habited variety of the Nippon spiraea, *S. nipponica rotundifolia*. The reason for suggesting the variety is that it bears somewhat larger flowers and has smooth, rounded leaves, which like those of the straight species, remain on the plant late in the season.

The other relatively late-flowering, white-flowering spiraea is *S. trichocarpa*, or Korean spiraea, which grows to about the same size as the Van Houtte variety, but usually has a greater spread and is much coarser

in texture. Its flower clusters are larger, but are borne in much the same manner along arching or drooping branches. Even though this species may be slightly less hardy than *S. vanhouttei*, it is a worth-while shrub where it can be allowed to develop without pruning or too much crowding.

All of the foregoing species and varieties being spring-blooming, the most satisfactory method of pruning to maintain naturalness of habit is the removal of a portion of the older stems at ground level immediately after flowering. In the case of free-standing plants, there is seldom any need to prune regularly.

Pruning is, however, a different technique when one is dealing with such summer-flowering kinds as *Spiraea bumalda* Anthony Waterer. This particular hybrid has been much planted and is often seen in the form of rather ragged-looking plants or plants which assume a rather distasteful appearance after the first flowers have faded. Some gardeners prune this variety as well as a few other late-blooming kinds in spring, but there seems little necessity for such treatment, unless it be that the plants are being cut down to force the development of more bushy growth. Actually, about all the pruning that this 2-foot plant requires for garden attractiveness is the shearing off of the old flower heads. In fact, if the faded blooms are removed promptly, a second crop of the flat-clustered carmine blooms will be produced.

Anthony Waterer and the taller-growing, crimson-flowered *S. b. froebelii* are two spiraeas which can be used effectively to plant low hedges because flowering will take place in normal manner under such arrangement and no particular damage to habit is occasioned by such formal treatment.

Two other summer-flowering spiraeas are of interest to rock gardeners only. One is *Spiraea bullata*, a relatively tiny Japanese shrub, which seldom grows to much more than a foot in height. It does, however, send up numerous stems covered with small, puckered leaves. Its clusters of pink blooms appear in late summer and occasionally at other times. The other is *Spiraea decumbens*, of southern Europe, which because of its flopping stems, seldom attains a

[Concluded on page 47.]

LINING-OUT STOCK

		Per 100	Per 1000			Per 100	Per 1000
1600	Abies balsamea, T.T., 8 to 12 ins.	\$25.00	\$250.00	5500	Pseudotsuga douglasii glauca (blue), 3-yr. S., 2 to 4 ins.	\$ 7.00	\$ 60.00
415	Abies fraseri, T.T., 8 to 12 ins.	35.00	300.00	2000	Rhamnus frangula, 1-yr. S., 4 to 10 ins.	5.00	40.00
1500	Abies nordmanniana, 2-yr. S., 2 to 4 ins.	7.00	60.00	2000	Rhododendrons (pot grafts), All popular varieties. Your choice of named varieties.	75.00	....
500	Acer palmatum atrop. (adlg. strain), 1-yr. T.	50.00	450.00	4000	Rhododendrons (hybrid seedlings), Tr. from beds.	30.00	250.00
1000	Acer palmatum atrop. (adlg. strain), 2-in. pots	30.00	250.00	1000	Rhododendron fortunei, from flats, T.	15.00	140.00
200	Acer palmatum atrop. pot grafts.	75.00	....	1000	Rhododendron maximum, from flats, T.	15.00	140.00
2500	Azalea hindogiri (from flats), T.	15.00	140.00	800	Salix niobe, C., 2 to 4 ft.	6.00	50.00
1200	Azalea kaempferi (from flats), T.	12.00	100.00	3000	Sorbus aucuparia, 1-yr. S., 4 to 6 ins.	6.00	50.00
800	Berberis thunbergii, 1-yr. S., 6 to 9 ins.	2.00	20.00	650	Symphoricarpos chenaultii, 1-yr. C., 18 to 24 ins.	4.00	....
1000	Berberis thunbergii, 1-yr. S., 9 to 12 ins.	3.00	30.00	500	Symphoricarpos racemosus, 1-yr. C., 12 to 18 ins.	3.50	....
500	Berberis thunbergii, 1-yr. S., 12 to 15 ins.	5.00	40.00	1000	Symphoricarpos racemosus, 1-yr. C., 18 to 24 ins.	4.00	....
400	Berberis thunbergii, 2-yr. T., 12 to 15 ins.	10.00	....	1000	Symphoricarpos vulgaris, 1-yr. C., 18 to 24 ins.	3.50	35.00
200	Berberis thunbergii, 2-yr. T., 15 to 18 ins.	15.00	....	200	Taxus andersonii, 2-yr. T.	35.00	300.00
20,000	Berberis thunbergii atropurpurea, 1-yr. S., 4 ins. and up, row run.	3.00	25.00	10,000	Taxus cuspidata, 3-yr. T., 8 to 12 ins.	25.00	200.00
1000	1-yr. S., 3 to 8 ins.	3.50	....	3000	Taxus cuspidata, 3-yr. T. (cutback).	35.00	300.00
1000	1-yr. S., 6 to 9 ins.	4.00	350.00	2150	Taxus cuspidata (No. 1 type, low, flat), 3-yr. T., 7 to 14 ins.	35.00	300.00
600	Buxus semp. Newport Blue, 2-yr. T., 6 to 8 ins.	35.00	250.00	1000	Taxus cuspidata (No. 2 type, semisupright), 6 to 12 ins.	30.00	250.00
800	Buxus arborescens, 2-in. pots.	15.00	....	450	Taxus cuspidata (No. 3 type, upright-spreading, flat top), 2-yr. T., 6 to 12 ins.	30.00	250.00
60	Chamaecyparis pisifera globosa, 3-yr. C., 7 to 14 ins.	30.00	....	10,000	Taxus cuspidata, 4-yr. TT., 8 to 12 ins.	50.00	450.00
1000	Chamaecyparis plumosa, 1-yr. T.	15.00	140.00	2000	Taxus cuspidata, 5-yr. TT., 10 to 12 ins.	60.00	550.00
2600	Chamaecyparis plumosa, 2-yr. T., 10 to 14 ins.	30.00	250.00	1000	Taxus cuspidata, T.T.T., 10 to 15 ins.	110.00	1000.00
3400	Chamaecyparis plumosa, 3-yr. T., 8 to 10 ins.	40.00	350.00	400	Taxus cuspidata, 3-yr. T., 8 to 12 ins.	30.00	250.00
2000	Chamaecyparis plumosa aurea, 1-yr. T.	15.00	....	4000	Taxus cusp. browni, 2-yr. T., 8 to 12 ins.	35.00	300.00
1500	2-yr. T., 8 to 10 ins.	30.00	250.00	2000	Taxus cusp. capitata (cuttings), 2-yr. T.	40.00	350.00
3500	3-yr. TT., 8 to 10 ins.	45.00	400.00	3000	Taxus cusp. capitata (from seeds), 4-yr. T., 10 to 12 ins.	75.00	750.00
1000	Chamaecyparis squarrosa, 2-yr. T., 6 to 8 ins.	35.00	300.00	2000	5-yr. TT., 8 to 10 ins.	90.00	850.00
1000	Cornus alba sibirica, 1-yr. C., 18 to 24 ins.	4.00	40.00	9650	Taxus cusp. capitata, 5 and 6-yr. T., 7 to 14 ins.	65.00	650.00
6000	Cornus florida, 1-yr. S.	6.00	50.00	4250	Taxus cusp. capitata, 6-yr. T., 8 to 16 ins.	90.00	850.00
5000	Cornus florida, 2-yr. S.	50.00	....	1000	TT., 12 to 15 ins.	150.00	....
2000	Cornus kousa, 4-yr. T., 18 to 24 ins.	35.00	300.00	2300	Taxus cusp. columnaris, 3-yr. T., 6 to 10 ins.	35.00	300.00
525	Cornus stolonifera, 1-yr. C., 18 to 24 ins.	4.00	40.00	10,000	Taxus cuspidata nana, 2-yr. T., 8 to 10 ins.	35.00	300.00
5000	Daphne cneorum, rooted cuttings.	10.00	90.00	2000	Taxus cuspidata nana, 3-yr. T.	30.00	250.00
2000	Enkianthus campanulatus (from flats), T.	15.00	120.00	3000	Taxus cuspidata nana, 4-yr. TT.	50.00	450.00
2000	Eumyrtus radicans, 2-yr. T., 6 to 8 ins.	25.00	200.00	1500	Taxus cusp. thayeri, 2-yr. T.	30.00	250.00
2000	Eumyrtus radicans, 2-yr. T., 8 to 10 ins.	30.00	250.00	600	Taxus intermedia (spreading), 2-yr. T.	30.00	250.00
2000	Eumyrtus rad. carrierei, 2-yr. T., 8 to 10 ins.	50.00	....	3000	Taxus intermedia (spreading), 4-yr. TT.	50.00	450.00
2000	Eumyrtus rad. coloratus, TT., 12 to 15 ins.	35.00	300.00	1000	Taxus intermedia (heavy), TT., 12 to 15 ins.	110.00	1000.00
1150	Eumyrtus rad. coloratus, 2-in. pots.	12.00	250.00	2950	Taxus intermedia (upright type), 3-yr. T., 7 to 14 ins.	35.00	300.00
1000	Eumyrtus rad. for. variegata, T., 4 to 6 ins.	20.00	150.00	2000	Taxus media (bright), 2-yr. T., 8 to 10 ins.	30.00	250.00
1000	Eumyrtus rad. vegetus, cuttings from flats.	10.00	90.00	2000	Taxus media, Halloran strain, 1-yr. C., 4 to 6 ins.	25.00	225.00
5000	Eumyrtus rad. vegetus, 1-yr. T., 6 to 10 ins.	25.00	200.00	2500	Taxus media, Halloran strain, 2-yr. T., 8 to 10 ins.	35.00	300.00
2000	Forsythia fortunei, 1-yr. C.	4.00	35.00	4000	Taxus media hicksi, 2-yr. T.	25.00	200.00
813	Forsythia fortunei, 1-yr. C., 18 to 24 ins.	4.00	....	3000	Taxus media hicksi, 3-yr. T., 8 to 10 ins.	30.00	250.00
3000	Forsythia intermedia, 1-yr. C., 12 to 18 ins.	3.50	35.00	2000	Taxus media hicksi, 4-yr. TT., 8 to 12 ins.	50.00	450.00
1880	Forsythia intermedia, 1-yr. C., 18 to 24 ins.	4.00	40.00	1000	Taxus media hicksi, 5-yr. TT., 10 to 12 ins.	60.00	550.00
2000	Forsythia spectabilis, 1-yr. C., 12 to 18 ins.	4.00	35.00	1500	Taxus media microphylla, 2-yr. T.	35.00	300.00
1000	Forsythia spectabilis, 1-yr. C., 18 to 24 ins.	5.00	50.00	2000	Taxus media microphylla, 3-yr. T.	35.00	300.00
1000	Forsythia spectabilis, 1-yr. C., 18 to 24 ins.	5.00	50.00	2000	Taxus media microphylla, 1-yr. T., 4 to 6 ins.	20.00	180.00
1000	Forsythia spectabilis, 1-yr. C., 18 to 24 ins.	5.00	50.00	1000	Thuja occidentalis, 3-yr. T., 6 to 8 ins.	20.00	180.00
300	Ilex glabra, 1-yr. C., 4 to 6 ins.	18.00	....	1000	Thuja occ. boothii, 1-yr. T.	25.00	200.00
475	Juniperus communis, 1-yr. C., 7 to 12 ins.	15.00	140.00	1000	Thuja occ. boothii, 4-yr. TT.	50.00	450.00
5000	Juniperus com. hibernica, 1-yr. T.	15.00	140.00	1000	Thuja occ. columba, 2-yr. T., 4 to 6 ins.	20.00	....
1000	Juniperus com. hibernica, 3-yr. T., 12 to 15 ins.	30.00	250.00	1000	Thuja occ. compacta, 2-yr. T., 8 to 12 ins.	30.00	250.00
5000	Juniperus com. hibernica, 1-yr. T., 6 to 8 ins.	30.00	250.00	1000	Thuja occ. douglasii aurea, 2-yr. T., 8 to 12 ins.	35.00	300.00
550	Juniperus com. hibernica, 3-yr. T., 16 to 24 ins.	30.00	250.00	500	Thuja douglasii pyr., pot grafts.	35.00	....
1500	Juniperus com. saccata, T., 4 to 6 ins.	25.00	200.00	1000	Thuja occ. elegantissima, 1-yr. T.	25.00	200.00
1500	Juniperus depressa plumosa, 2 1/2-in. pots.	15.00	150.00	1500	Thuja occ. elegantissima, 3-yr. TT., 10 to 12 ins.	35.00	300.00
1000	Juniperus excelsa stricta, 1-yr. T.	30.00	250.00	800	Thuja occ. elegantissima, 4-yr. TT., 10 to 12 ins.	50.00	450.00
2000	Juniperus pfitzeriana, 2-yr. T., 4 to 6 ins.	28.00	250.00	1000	Thuja occ. elegantissima, 2 1/2-in. pots.	20.00	....
1000	Juniperus sabina vancouver, 3-yr. T., 6 to 8 ins.	30.00	....	2000	Thuja occ. hoveyi, 1-yr. T.	15.00	140.00
25,000	Juniperus virginiana, 1-yr. S., 1 to 3 ins.	5.00	40.00	7000	Thuja occ. nigra (Dark American Arb.), 2-yr. T., 8 to 12 ins.	30.00	250.00
1200	Kerria japonica forepleno, 2 1/2-in. pots.	12.00	120.00	3000	1-yr. T., 4 to 6 ins.	15.00	140.00
1500	Ligustrum boottii, 1-yr. C., 12 to 24 ins.	3.00	30.00	1500	4-yr. T.	50.00	450.00
3000	Ligustrum ovalifolium, 1-yr. C., 12 to 18 ins.	3.00	25.00	2000	Thuja occ. pyramidalis, 1-yr. T., 4 to 6 ins.	25.00	200.00
600	Lonicera bella albidia, 1-yr. C., 18 to 24 ins.	4.00	....	500	Thuja occ. pyramidalis, 2-yr. T., grafts, 18 to 24 ins.	60.00	500.00
828	Lonicera tatarica alba, 1-yr. C., 18 to 24 ins.	4.00	....	225	Thuja occ. pyramidalis, 3-yr. T., 12 to 18 ins.	35.00	....
2200	Lonicera tatarica rubra, 1-yr. C., 12 to 18 ins.	4.00	40.00	500	Thuja occ. recurva nana, 2-yr. T., 4 to 6 ins.	20.00	....
1800	Lonicera tatarica rubra, 1-yr. C., 18 to 24 ins.	5.00	50.00	300	Thuja occ. spiralis, 2-yr. T., 10 to 14 ins.	30.00	250.00
18,100	Picea canadensis albertiana, 2 and 3-yr. S., 2 to 4 ins.	6.00	50.00	175	Thuja occ. wareana globosa, 2-yr. T., 5 to 10 ins.	30.00	....
14,000	Picea canadensis densata, 2-yr. S., 1 1/2 to 2 ins.	5.00	40.00	1000	Thuja occ. woodwardii, 2-yr. T., 6 to 8 ins.	25.00	200.00
4000	Picea canadensis densata, 2-yr. S., 2 to 4 ins.	6.00	50.00	425	Thuja occ. woodwardii, 3-yr. T., 6 to 12 ins.	30.00	250.00
20,000	Picea engelmannii, 2-yr. S.	6.00	50.00	1000	Thuja occ. woodwardii, 2 1/2-in. pots.	17.50	....
8150	Picea engelmannii, 1-yr. S.	6.00	50.00	60,000	Thuja orientalis, 2-yr. S.	3.00	20.00
6000	Picea engelmannii glauca (blue), 2-yr. S., 2 to 4 ins.	6.00	50.00	1000	Thuja orientalis aurea nana, pot grafts, 8 to 10 ins.	35.00	....
15,000	Picea excelsa, 2-yr. S.	6.00	50.00	2000	Thuja orientalis aurea nana, 2-yr. T., grafts, 8 to 10 ins.	50.00	450.00
1500	Picea excelsa, 4-yr. T., 5 to 12 ins.	20.00	180.00	50,000	Tsuga canadensis (collected adlg.), 4 to 10 ins.	7.00	50.00
10,000	Picea glauca albertiana, 3-yr. S.	9.00	80.00	5000	Vaccinium (Hyb. Blueberries) Varieties—Cabot, Rancocas, Stanley, Rubel, Jersey, rooted cuttings.	20.00	150.00
5000	Picea pungens, 2-yr. S.	6.00	50.00	2000	Viburnum burkwoodii, own roots, 2 1/2-in. pots.	35.00	300.00
38,000	Picea pungens, 2-yr. S., 1 1/2 to 3 ins.	6.00	50.00				
15,000	Picea pungens, 3-yr. S.	9.00	70.00				
71,400	Picea pungens, 3-yr. S., 2 to 4 ins.	9.00	70.00				
1000	Pieris japonica, 2 1/2-in. pots.	25.00	200.00				
2000	Pieris japonica, T. (from flats), 4 to 6 ins.	15.00	140.00				
875	Pinus banksiana, 4-yr. T., 10 to 20 ins.	5.00	40.00				
4000	Pinus densiflora, 2-yr. T., 3 to 6 ins.	4.00	35.00				
3000	Pinus densiflora, 3-yr. T.	6.00	50.00				
3000	Pinus mughus, 2-yr. S.	6.00	50.00				
3000	Pinus mughus, 2-yr. S., 2 to 4 ins.	6.00	50.00				
4000	Pinus mughus, 2-yr. S., 1 1/2 to 3 ins.	6.00	50.00				
2000	Pinus nigra, 1-yr. S.	3.00	20.00				
25,000	Pinus rigida, 2-yr. S.	3.00	20.00				
18,000	Pinus rigida, 2-yr. S., 4 to 8 ins.	3.00	20.00				
500	Pinus rigida, 4-yr. T., 10 to 18 ins.	5.00	40.00				
150,000	Pinus strobus, 3-yr. S.	5.00	40.00				
20,000	Pinus strobus, 3-yr. S., 4 to 8 ins.	5.00	40.00				
35,400	Pinus strobus, 3-yr. T., 3 to 6 ins.	9.00	70.00				
1200	Pinus strobus, 4-yr. T., 4 to 7 ins.	10.00	90.00				
15,600	Pinus sylvestris, 2-yr. S., 2 to 5 ins.	5.00	40.00				
2000	Pinus thunbergii, 1-yr. S.	6.00	50.00				

All the above-listed material is grown by our best growers of lining-out material. All F.O.B. shipping points, packing additional at cost. Usual terms to trade accounts. All pot grafts will be ready May, 1948. All this material is listed subject to prior sale and subject to usual trade terms as mentioned in our Fall, 1947, catalog.

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Wallingford, Conn.

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Ohio Short Course

By E. L. Hartman

In the two preceding issues appeared reports of the talks given at the opening sessions of the nineteenth annual short course for arborists, landscape gardeners and nurserymen held January 19 to 21 at the Neil House, Columbus, O., under the auspices of Ohio State University with the cooperation of the National Shade Tree Conference. The report in the February 15 issue covered subjects mainly of interest to arborists, while that in the March 1 issue completed the report of talks on arboreal topics and also covered a talk on spray materials. Further report of the short course follows:

Spray Equipment.

An interesting and comprehensive comparison of "Mist Blowers Versus Hydraulic Sprayers" was made by Oscar F. Warner, landscape forester, Waterbury, Conn. He defined mist spraying of trees and shrubs as the breaking up, or atomization, of concentrated insecticides or fungicides and their dispersal in an air current of high velocity created by an engine-driven turbine or blower.

The conventional or hydraulic method of spraying trees to control insect pests involves the application of large volumes of diluted insecticidal mixtures, with water as the diluent and carrier, in powerful high-pressure sprayers. This method is expensive in labor, material, equipment and time.

The development of a mist blower which will uniformly and thoroughly apply a concentrated insecticide or fungicide is the logical result of an effort to overcome relatively cumbersome and expensive methods. This apparatus should thoroughly atomize the spray; give rapid and uniform coverage with a small volume; expel the mist up to 100 feet vertically and 200 to 300 feet horizontally; deliver solutions, emulsions or suspensions, and be light in weight as compared with the standard sprayers.

Mr. Warner said that unquestionably the cost of spraying with blower equipment is far below that of spraying with hydraulic equipment. Some of the factors which contribute to this lower cost in sequence of importance are: More rapid application, lower operational costs, lower capital investment in truck and blower equipment for results obtained and much lower material costs.

He reported that he has found that his mist-blowing equipment will spray

at least four times as rapidly as a hydraulic sprayer. Lower operational labor costs of the mist sprayer result because the mist blower will do more spraying in a given time and requires less manpower for operation. Mr. Warner uses only two operators on his mist-spraying equipment, even on highway spraying—one operator for the truck and one for the blower. Three or four men must be employed on the hydraulic outfits to drag hose and control traffic.

The original capital investment is less for a mist blower with suitable



L. C. Chadwick.

transportation than it is for a large hydraulic sprayer, hose and gun equipment and a suitable truck to transport the equipment. Material costs represent only a small percentage of the total spraying costs, but the cost of materials used by mist-blowing equipment is much lower than that used by hydraulic sprayers.

Mr. Warner also listed several other advantages of mist blowers having little or no bearing on costs, and they are as follows: Better and more uniform coverage as a result of small droplet size and less runoff of material from foliage; elimination of unsightly residue on cars, adjacent buildings and plants; better timing of sprays over a larger area as a result of increased speed of operation; multiple-purpose spraying for leaf feeders, bark beetles, borers and area fly and mosquito control in one application; proper use of wind permitting coverage of large areas from few key positions; better adherence of DDT particles to foliage

and bark obtained from an oil solution, which penetrates the outer layer of the foliage and bark and later returns to the surface in the form of minute crystals; less washoff of spray particles by rain, and less toxicity to soil, as a smaller amount of chemical is used by the mist blower, and the foliage runoff is also less with a mist blower. The mist blower is the specific ground-spraying equipment for area control of certain leaf-eating insects and for fly and mosquito control with concentrated DDT solutions. Thus, a new field of pest control is opened to the alert and progressive arborist, who is better qualified and trained for this new field than is the so-called pest exterminator.

Mr. Warner believes that hydraulic sprayers still retain the following advantages: They are beyond the experimental or even the developmental stage; they can use any fungicide or insecticide on the market; they offer greater accessibility, the only limiting factor being the length of the spray hose, and they afford greater accuracy of spray direction, which is important where minimum drift is desired. Hydraulic sprayers have multiple uses and can be used for weed control, lawn insect and fungus control, subsoil application of fertilizers and chemotherapeutic chemicals and fire control. The bulk and weight of the water for the hydraulic sprayer have been listed as disadvantages, but water also can be a distinct advantage because it is the safest diluent. It is far safer on tender foliage than an oil solution. The hydraulic sprayer holds a temporary advantage over the mist blower because many clients doubt the effectiveness of mist spraying. This doubt is removed as soon as the property is sprayed to control shade tree insects or flies and mosquitoes.

Both the hydraulic sprayer and mist blower have their limitations, according to Mr. Warner. Neither machine will supersede the other, but rather, each will supplement the other. The hydraulic sprayer should be on every practicing arborist's list of equipment. If spray volume warrants using more than one piece of spray equipment, the arborist should seriously consider the mist blower, for it opens up new avenues of better service to his clients and increased and profitable volume to himself.

Edward F. Scanlon, commissioner, division of shade trees, Cleveland, O.,

[Continued on page 66.]

FRUIT TREES

FOR IMMEDIATE DELIVERY

All trees advertised are Northern-grown, well branched and have excellent root systems. They have been liberally graded to our high standards and are sure to please the most discriminating customer. We are proud of them!!!!

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APPLES

	Per 100	Per 1000
11/16 to 7/8-in., 4 1/2 ft. and up.....	\$55.00	\$500.00
9/16 to 11/16-in., 4 ft. and up.....	45.00	400.00
7/16 to 9/16-in., 3 ft. and up.....	32.00	280.00
5/16 to 7/16-in., 2 ft. and up.....	22.50	200.00

Anoka	McIntosh
Beacon	McIntosh, Early
Delicious, Red	McIntosh, Dark Red
Delicious, Yellow	Minjon
Dolgo Crab	Northern Spy, Red
Duchess	N. W. Greening
Fireside	Prairie Spy
Gallia Beauty	Red June
Grimes Golden	Rome Beauty Red
Haralson	Sharon
Ingram	Stayman Winesap
Joan	Turley
Jonathan	Wealthy
Jonathan, Red	Whitney Crab
Lodi	Winesap, Dark Red
Maiden Blush	Yellow Transparent

SOUR CHERRIES on Mahaleb

1 and 2-year: 1-year are about 6 inches shorter than 2-year.

	Per 10	Per 100
11/16 to 1-in., 4 ft. and up.....	\$11.00	\$100.00
9/16 to 11/16-in., 3 1/2 ft. and up.....	9.00	85.00
7/16 to 9/16-in., 3 ft. and up.....	8.00	75.00
1 to 1 1/2-in., 4 1/2 ft. and up.....	12.50	115.00

Early Richmond English Morello Montmorency

STANDARD PEAR—2-year

	Per 100	Per 1000
11/16-in. and up, 4 1/2 ft. and up.....	\$90.00	\$850.00
9/16 to 11/16-in., 4 ft. and up.....	75.00	700.00
7/16 to 9/16-in., 3 ft. and up.....	60.00	550.00
5/16 to 7/16-in., 2 ft. and up.....	45.00	400.00

Bantam	Duchess	Parker
Bartlett	Flemish Beauty	Patten
B. d'Anjou	Kieffer	Seckel
Clapp's	Lincoln	
Douglas	Mendel	

PLUM—EUROPEAN and JAPAN

1 and 2-year, on Myrobalan. All branched.

	Per 100	Per 1000
11/16-in. and up, 4 1/2 ft. and up.....	\$90.00	\$850.00
9/16 to 11/16-in., 4 ft. and up.....	75.00	700.00
7/16 to 9/16-in., 3 ft. and up.....	60.00	550.00
5/16 to 7/16-in., 2 ft. and up.....	45.00	400.00

Abundance	Green Gage	Stanley Prune
Burbank	Italian Prune	Yellow Egg
Fellenburg	Lombard	

PLUM—AMERICAN and HARDY HYBRIDS

1-year, on Native Roots, branched.

	Per 10	Per 100
11/16-in. and up, 4 1/2 ft. and up.....	\$10.00	\$90.00
9/16 to 11/16-in., 4 ft. and up.....	8.50	75.00
7/16 to 9/16-in., 3 ft. and up.....	6.50	60.00
5/16 to 7/16-in., 2 ft. and up.....	5.00	45.00

Compass	Kaga	Sapa
Ember	Kahinta	Toka
Goldenrod	Omaha	Underwood
Hanska	Opata	Waneta

See Page 25 for Shrub and Vine Ad

Terms — Regular
ACT TODAY

SWEET CHERRIES—2-year

	Per 100	Per 1000
1-in. and up, branched.....	\$14.50	\$125.00
11/16 to 1-in., 4 1/2 ft. and up, branched....	13.50	115.00
9/16 to 11/16-in., 4 ft. and up, branched....	11.00	100.00
7/16 to 9/16-in., 3 ft. and up, branched....	8.50	80.00
5/16 to 7/16-in., 2 1/2 ft. and up, mostly whips	7.00	65.00

Bing	Lambert	Schmidt Big.
Black Tartarian	Napoleon	Windsor
	Yellow Spanish	

SWEET CHERRIES—1-year

	Per 10	Per 100
11/16-in. and up, 4 1/2 ft. and up, branched and whips.....	\$11.00	\$100.00
9/16 to 11/16-in., 4 ft. and up, branched and whips.....	9.00	85.00
7/16 to 9/16-in., 3 ft. and up, branched and whips.....	7.50	70.00
5/16 to 7/16-in., 2 ft. and up, branched and whips.....	6.00	55.00

Bing	Black Tartarian	Windsor
Black Giant	Napoleon	Yellow Glass
Black Republican	Schmidt Big.	Yellow Spanish

LAKE'S SHENANDOAH NURSERIES

1870

Shenandoah, Iowa

1948

Oklahoma Plans Budwood Certification

By Thelma Hall Quast

A report appeared in the preceding issue covering the first day of the 2-day convention of the Oklahoma Nurserymen's Association held January 16 and 17 at the Huckins hotel, Oklahoma City. A report on the activities of the second day of the meeting follows:

Landscaping.

The landscape profession was ably represented by J. O. Lambert, Jr., Lambert Landscaping Co., Dallas, Tex., who was the first speaker at the Saturday morning session.

"I cannot presume to tell you how to run your businesses; I can only tell you how we run ours," Mr. Lambert said. "Possibly with the exchange of ideas, there may be something in our methods which may be of assistance to you in your own work and which will be reflected in your future prosperity."

For each of its clients the Lambert Landscaping Co. makes a finished, detailed picture plan in color, for which it charges from \$25 for a small foundation planting up to \$800 or more, depending upon the size and scope of the work.

In approaching the solution of the landscape problem, certain factors must be taken into consideration. The style and character and color of the residence must be considered. In many instances Mr. Lambert finds it possible to persuade the client to change the whole color scheme of the house or its trim, in order to give it a more pleasing, soft appearance that will harmonize with the planting.

All front corner plantings, except in rare cases, are eliminated, and no plantings are made on each side of the walks or steps unless the house tends to be a quaint type. "In other words," Mr. Lambert said, "we believe in broad, open green lawns, using sufficient trees on the lawn to frame the house and, in some instances, to break the bad features of the house. Also, trees are used for height where, in previous years, heavy corner plantings around the house were used."

Mr. Lambert expressed his dislike of the spires and mixtures of shrubs which become monumental, or overpowering, in a few years. Simplicity of foundation planting is the basis of his arrangements.

"Plants to us are as bricks to a builder," he averred. "They must serve an architectural purpose."

The long-lived, hardy plants are

his choice, rather than the fast-growing shrubs. He uses cut, low hedges and, occasionally, taller planting emphasis at the corner of the residence or on each side of the doorway.

"Generally, our foundation plantings consist of only three or four varieties of shrubs of the evergreen type," he said. "The old idea of pyramids at each corner, at each break of the house and on each side of the windows is definitely a thing of the dark past with us. By strictly adhering to these rules, we find that our plantings need a minimum amount of maintenance and will be just as attractive and orderly five, ten or fifteen years after they are put in. They do not blanket the house and do not go to pieces such as does the generally used, mixed type of planting in a period of five to ten years. I repeat, simplicity of planting around the house and in the garden is a must."

In gardens, privacy and permanency of background are achieved by the use of laurel, red cedar, hollies or ligustrum or a garden wall or fence.

"These plants can in most instances be kept in a sheared or semisheared state, rather than having to be individually clipped. In front of the background, we use flowering shrubs and a minimum of flower beds. We try to achieve definite line and form in the garden with walks, small hedges and garden ornaments for architectural strength," he said. "In this way the garden will make an attractive appearance twelve months of the year rather than being a mass of blooms only in the spring or at some other particular season of the year."

Mr. Lambert is especially fond of outdoor terraces if there are no large porches attached to the house. With trees used to shade them, they are designed of ample size and width to afford pleasurable use.

The landscape architects with Mr. Lambert's firm have few cutting beds in the gardens they plan. They place these, along with the rose beds, in the service area.

"There is certainly nothing attractive about a rose bed when it is not in full bloom," he declared, "and that is for only a short period of the year."

Two particular objections are to barbecue pits and dead-white porches. The former, he thinks, are seldom attractive and useful enough to justify their inclusion in the garden. Mr.

Lambert prefers porches painted a soft green so that they blend into the garden.

Walks are usually no narrower than three feet or wider than five feet, are simple in line and are generally well made. Ornaments are chosen for their restfulness and livableness.

"There is nothing more tiresome," said Mr. Lambert, "than looking at a maiden standing on one foot 365 days in the year."

He advises using good ornaments or none at all. In its stockroom, the firm carries a large variety of benches, chairs, figures and urns, ranging in style from Chinese to late Victorian and wrought-iron and cast-iron railing, fencing and ornamental gates.

Walks should be straight, making an honest approach to the residence rather than being of a serpentine nature, he said. Pools should be simple in line and form and well made. Driveways should be straight or simply curved.

Whenever possible, steel curbing is used to outline all shrubbery and flower beds, in order to keep them in their original shape and form and to reduce the cost of maintenance. "We do a large business in steel curbing," Mr. Lambert reported. "The tempo of our business is based on quality and service."

Mr. Lambert encourages his clients to plant only what they can afford to plant well in well prepared soil and advises them to stretch their development over a period of years, if necessary, rather than try to plant too much with too little money. Only plants of good quality and those which will live a long time, such as oaks and magnolias among trees, are sold by the firm. Chinese elm, Arizona cypress or other such trees that are fast-growing but short-lived are never used. Mr. Lambert believes that nurserymen make a mistake in selling plants of doubtful lasting qualities. A satisfied customer not only brings repeat business but new customers.

"We strive to build up a customer list that will repeat over the years, running anywhere from \$100 to \$1,000 a month for maintenance, tree work, spraying, planning flower beds and planting them and assisting clients when they entertain in their gardens to see that everything is in proper order.

"We find it is a good public rela-

Why we are **NOT** ready to offer you **INSECT-O-BLITZ** in **TIN CANS...until?**

We have been asked over and over again during the past few months about our plans for marketing a tin can, low-pressure aerosol Bomb. So that our friends in the trade will know exactly what our position is, here is our decision.

Insect-O-Blitz HAS NOT and WILL NOT put out a Tin-can-type Aerosol UNTIL a low-pressure aerosol can be developed which will **POSITIVELY** be as efficient as the present high-pressure Insect-O-Blitz which has given such consistent trade and consumer satisfaction.

We have been working for many months on just such a product. Our widely-known chemists have been experimenting with many new formulations and our

skilled engineers on the most efficient and effective methods of dispensing them. But, we are not yet convinced, on the basis of scientifically-controlled laboratory tests, that a low-pressure Aerosol, equal in efficiency to high-pressure Insect-O-Blitz, has been developed.

Insect-O-Blitz does not intend to market prematurely a low-pressure Aerosol Bomb. When we do introduce a low-pressure Aerosol Insect-O-Blitz you may be sure that it will stand up under the most exhaustive tests.

To paraphrase a well-known automobile slogan: "When better Aerosol Bombs are built, Insect-O-Blitz will build them!"

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CHECK THESE IMPORTANT INSECT-O-BLITZ FEATURES:

STURDY SCREW-TYPE VALVE . . .

No leaking. Easy to operate. Trouble-free satisfaction for your customers.

FULL 16 OUNCES

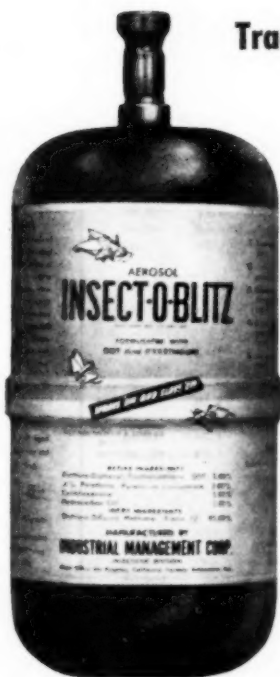
Of high-pressure Aerosol in sturdy steel container. Not to be confused with smaller-content, tin beer-can types of low-pressure insecticide bombs.

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Advertised brand. Insect-O-Blitz is recognized as one of the most effective, trouble-free high-pressure aerosols on the market.

GOVERNMENT APPROVED

Formulation of 2% Pyrethrum (0.4% Pyrethrins) and 3% DDT combined with High-Pressure Freon Aerosol. The same potent formula used by the Armed Forces overseas.



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Open the valve of an Insect-O-Blitz and direct the Aerosol Mist at a clean piece of paper held approximately 18 inches away from the bomb while you count to three.

Take any other brand of aerosol and repeat this procedure on another piece of paper for the same length of time.

Now compare the two pieces of paper. See how much less greasy oil residue is left by Insect-O-Blitz. That means that the fine Insect-O-Blitz mist is lighter and will naturally penetrate into all the nooks and crannies of the room, seeking out flying insects whether you can see them or not. Think of what this lesser oil residue from Insect-O-Blitz means to your housewife customers in the matter of soiling and staining upholstery and drapes.

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INDUSTRIAL MANAGEMENT CORPORATION

458 SOUTH SPRING STREET • LOS ANGELES 15, CALIFORNIA

FRUIT TREES

300 or more at 1000 rate.

APPLES and CRAB APPLES

Two-year Grafts	Per 10	Per 100	Per 1000
1 1/16-in. and up, 4 1/2 ft. and up.....	\$5.50	\$50.00	\$450.00
9/16 to 1 1/16-in., 4 ft. and up.....	4.50	40.00	350.00
7/16 to 9/16-in., 3 ft. and up.....	3.50	30.00	250.00
5/16 to 7/16-in., 2 ft. and up.....	2.50	20.00	150.00
4 to 5 ft., whips.....	4.00	35.00	300.00
3 to 4 ft., whips.....	3.50	30.00	250.00
2 to 3 ft., whips.....	2.50	20.00	150.00
Anoka	Haralson	McIntosh, Red	Whitney
Delicious, Dk. Red	Hyslop	Rome Beauty, Red	Wilson Red June
Delicious, Yellow	Jonathan	Stayman, Red	Winesap
Duchess, Dk. Red	Jonathan, Dk. Red	Transcendent	Yellow Transparent
Early Harvest	Lodi	Turley	York Imperial
Grimes Golden	Malden Blush	Wealthy	

PEACHES

One-year Buds	Per 10	Per 100	Per 1000
1 1/16-in. and up, 4 1/2 ft. and up.....	\$6.00	\$55.00	\$500.00
9/16 to 1 1/16-in., 4 ft. and up.....	5.00	45.00	400.00
7/16 to 9/16-in., 3 ft. and up.....	4.00	35.00	300.00
5/16 to 7/16-in., 2 ft. and up.....	2.40	20.00	150.00
2 to 3 ft.....	1.50	12.00	100.00
Belle of Georgia	Early Elberta	Golden Jubilee	Mayflower
Carman	Elberta	Halehaven	Redhaven
Champion	Early Wheeler	J. H. Hale	Rochester
Delicious			Salberta

CHERRIES—SOUR

One-year	Per 10	Per 100	Per 1000
1 1/16-in. and up, 3 1/2 ft. and up.....	\$11.00	\$100.00	\$900.00
9/16 to 1 1/16-in., 3 ft. and up.....	9.00	85.00	800.00
7/16 to 9/16-in., 2 1/2 ft. and up.....	7.50	70.00	650.00
5/16 to 7/16-in., 2 ft. and up.....	5.50	50.00	450.00
3 to 4 ft., whips.....	5.50	50.00	450.00
2 to 3 ft.....	4.00	35.00	300.00
Montmorency	Early Richmond		

CHERRIES—SWEET

One-year	Per 10	Per 100
9/16 to 1 1/16-in., 4 ft. and up.....	\$10.00	\$90.00
7/16 to 9/16-in., 3 ft. and up.....	8.00	75.00
5/16 to 7/16-in., 2 1/2 ft. and up.....	6.50	60.00
Governor Wood	Lambert	Napoleon
		Windsor

PLUMS

	Per 10	Per 100
9/16 to 1 1/16-in., 4 ft. and up.....	\$8.50	\$75.00
7/16 to 9/16-in., 3 1/2 ft. and up.....	7.00	60.00
5/16 to 7/16-in., 2 ft. and up.....	4.50	40.00
2 to 3 ft.....	3.00	25.00
Abundance	Fellenberg	Hanska
Burbank	German Prune	Lombard
Compass	Gold	Opata
		Sapa
		Shropshire Damson
		Stanley
		Waneta

APRICOTS

One-year	Per 10	Per 100
1 1/16-in. and up, 4 1/2 ft. and up.....	\$10.00	\$90.00
9/16 to 1 1/16-in., 4 ft. and up.....	8.50	75.00
7/16 to 9/16-in., 3 ft. and up.....	7.00	60.00
5/16 to 7/16-in., 2 ft. and up.....	4.50	40.00
2 to 3 ft.....	3.00	25.00
Border Queen	Early Golden	Moorpark
		Superb

PEARS—STANDARD

Two-year	Per 10	Per 100	Per 1000
9/16 to 1 1/16-in., 4 ft. and up.....	\$8.50	\$75.00	\$700.00
7/16 to 9/16-in., 3 ft. and up.....	7.00	60.00	550.00
5/16 to 7/16-in., 2 ft. and up.....	5.50	50.00	450.00
3 to 4 ft., whips.....	5.50	50.00	450.00
2 to 3 ft.....	4.00	35.00	300.00
Cope's Seedless	Douglas	Duchess	Garber

WILLIS NURSERY CO.

"Your Wholesale Nurserymen"

OTTAWA, KANSAS

tions policy to assist garden clubs in every way and to cooperate with them in their civic projects. We also try to work closely with the park department, city officials and religious organizations in their planting problems," he stated.

Each Lambert client is furnished with a detailed estimate clearly stating what work is to be done. The firm guarantees without question all shrubs for one year and trees for two years. Once or twice a year they write letters of appreciation to their customers for their business.

He suggested that every nurseryman keep his place of business as neat and attractive as possible, with fields and yards kept clean, that he always fill his orders at the time promised and that he carry on a reliable delivery service.

"America is just becoming garden-conscious," he concluded. "Every small homeowner today is aware of the need for planting. There are plenty of available money and more business than we all can possibly handle. Your competition is not your fellow nurseryman; it is the luxury merchants, the car dealers and the jewelry stores. It is up to you to render better merchandising and give better service while the golden opportunity lasts. The future of your business demands that you modernize your methods. Only your methods of planning and of service will limit your future profits."

Budwood Certification.

The problem of virus diseases in stone fruits, particularly peaches, which has reached serious proportions in some states, has caused several states to develop programs of budwood certification in which nurserymen are provided with budwood from proved disease-free trees as a form of protection to the nurserymen from losses caused by those diseases. Oklahoma has only one of the fifty-seven known virus diseases of stone fruits, peach mosaic, and in only four of the seventy-seven counties of the state have Oklahoma nurserymen been concerned with the possibility of discrimination because of no program, as compared with states which do have that protection, in selling nursery stock in the national market.

For more than a year the Oklahoma State Nurserymen's Association has felt that such a program was desirable and at the annual winter meeting January 15, 1947, discussed the problem at length with Dr. K. Starr Chester, plant pathologist, Oklahoma A. & M. College. A committee on budwood certification was appointed to work with specialists for

EVERGREENS

These can be shipped INSIDE the Japanese Beetle Area ONLY.

100	Juniperus Hibernica, 5 to 6 ft.	\$1.50	180	Taxus Cusp. (Upr.) Hiti, 18 to 24 ins.	\$2.50
350	Juniperus Hibernica, 4 to 5 ft.	1.25	195	Taxus Cusp. (Upr.) Hiti, 18 ins.	2.00
35	Juniperus Hibernica, 3 to 4 ft.	1.00	90	Taxus Media Half. Hiti, 18 to 24 ins.	2.50
65	Juniperus Hibernica, 2 to 3 ft.	.75	280	Taxus Media Half. Hiti, 18 ins.	2.00
82	Juniperus Ex. Stricta, 15 to 18 ins.	1.00	15	Taxus Ovata, Upright, 2 to 3 ft.	1.00
8	Pine, White, 2 to 3 ft.	2.00	100	Taxus Ovata, Upright, 18 ins.	2.00
90	Ret. Plumosa, Green, 2 to 3 ft.	1.25	25	Taxus Sieboldi Hiti, 2 to 3 ft.	3.50
30	Ret. Plumosa Aurea, 2 to 3 ft.	1.25	100	Taxus Sieboldi Hiti, 18 ins.	2.50
500	Taxus Baccata, 18 ins.	2.00	20	Thuja Compacta, 2 to 3 ft.	2.00
290	Taxus Brev. Nana Hiti, 18 ins.	2.50	60	Thuja Compacta, 18 to 24 ins.	1.50
325	Taxus Cupidata, 18 to 24 ins.	2.50	40	Thuja Rosenthalii, 2 to 3 ft.	1.25
90	Taxus Cupidata Media Hiti, 2 to 3 ft.	3.00	20	Thuja Spiralis, 3 to 4 ft.	1.50
275	Taxus Cupidata Media Hiti, 18 to 24 ins.	2.00	295	Tsuga Canadensis, 2 to 3 ft., full, symmetrical, sheared several times.	3.00
50	Taxus Cupidata Nana Hiti, 24 ins.	3.00			
200	Taxus Cupidata Nana Hiti, 18 to 24 ins.	2.50			

ORNAMENTAL TREES

8	Butternut, 6 to 8 ft.	\$1.50	5	Maple, Silver, 15 to 20 ft.	\$3.00
40	Cornus, Fl., bush, heavy, 8 ft.	3.50	4	Maple, Silver, 6 to 8 ft.	.75
20	Euonymus Americana, 4 to 5 ft.	.50	10	Oak, Pin., 10 to 15 ft.	2.50
20	Euonymus Americana (Bush), 3 to 4 ft.	.40	10	Oak, Scarlet, 8 to 10 ft.	2.50
8	Euonymus Americana (Bush), 2 to 3 ft.	.30	75	Tilia Americana, 8 to 10 ft.	1.50
8	Euonymus Americana (Bush), 18 to 24 ins.	.25	75	Tilia Americana, 6 to 8 ft.	1.00
9	Maple, Norway, 8 to 10 ft.	1.50	30	Tilia Cordata, 8 to 10 ft.	1.50
185	Maple, Norway, 6 to 8 ft.	1.25	5	Tulip Tree, 15 to 20 ft.	5.00
30	Maple, Rock, 10 to 12 ft.	5.00	4	Tulip Tree, 10 to 15 ft.	3.50
60	Maple, Rubrum (Red), 6 to 8 ft.	1.00	10	Ulmus Pumila, 6 to 8 ft.	1.00
10	Maple, Rubrum (Red), 8 to 10 ft.	1.50			

Two-year Field-grown SHRUBS, etc.

96	Akebia Quinata, No. 1.	\$0.35	1790	Ligustrum, California, 3 to 4 ft.	\$0.08
74	Akebia Quinata, No. 2.	.30	1548	Ligustrum, California, 2 to 3 ft.	.06
200	Almond, Pink, 3 to 3 ft.	.30	2400	Ligustrum, California, 18 to 24 ins.	.05
103	Ampelopsis Quind., No. 1.	.20	2680	Ligustrum, California, 12 to 18 ins.	.05
107	Ampelopsis Quind., No. 2.	.15	21,460	Ligustrum Ibolium, 2 to 3 ft.	.08
2075	Ampelopsis Veitchi, 3-yr., 2 to 3 ft.	.30	15,625	Ligustrum Ibolium, 18 to 24 ins.	.06
1605	Ampelopsis Veitchi, 3-yr., 18 to 24 ins.	.25	15,200	Ligustrum Ibolium, 12 to 18 ins.	.04
435	Ampelopsis Veitchi, 2-yr., 2 to 3 ft.	.25	198	Ligustrum Ibolia, 3 to 4 ft.	.30
445	Ampelopsis Veitchi, 2-yr., 18 to 24 ins.	.25	499	Ligustrum Ibolia, 2 to 3 ft.	.25
32	Aralia Pentaphylla, 3 to 4 ft.	.25	249	Ligustrum Ibolia, 18 to 24 ins.	.20
18	Aralia Pentaphylla, 18 to 24 ins.	.15	39	Ligustrum Regel., 2 to 3 ft.	.30
86	Aristolochia Siphon, No. 1.	.40	227	Ligustrum Regel., 18 to 24 ins.	.15
47	Aristolochia Siphon, No. 2.	.30	350	Ligustrum Regel., 12 to 18 ins.	.10
3275	Berberis Thun., 12 to 18 ins.	.15	17	Lonicera Heckrothi, No. 2.	.30
675	Berberis Thun., 9 to 12 ins.	.10	30	Lonicera Morrowi, 3 to 4 ft.	.30
32	Buddleia Magnifica, No. 1.	.25	8	Lonicera Morrowi, 2 to 3 ft.	.25
48	Buddleia Magnifica, No. 2.	.20	9	Lonicera Morrowi, 18 to 24 ins.	.20
3	Chionanthus Virg., 2 to 3 ft.	1.00	123	Lonicera Tat. Alba, 3 to 4 ft.	.30
26	Clethra Alnifolia, 12 to 18 ins.	.20	87	Lonicera Tat. Alba, 2 to 3 ft.	.25
15	Clethra Alnifolia, 9 to 12 ins.	.15	27	Lonicera Tat. Alba, 18 to 24 ins.	.20
8	Cornus Eleg. Var., 12 to 18 ins.	.20	20	Philadelphus Grand., 3 to 4 ft.	.25
77	Cornus Sibirica, 3 to 4 ft.	.25	2	Philadelphus Grand., 2 to 3 ft.	.20
70	Cornus Sibirica, 2 to 3 ft.	.20	20	Philadelphus Grand., 18 to 24 ins.	.15
20	Cornus Sibirica, 18 to 24 ins.	.15	153	Philadelphus Virginialis, 3 to 4 ft.	.40
75	Cornus Stolonifera, 3 to 4 ft.	.35	155	Philadelphus Virginialis, 18 to 24 ins.	.25
26	Cornus Stolonifera, 2 to 3 ft.	.20	211	Roses, Dorothy Perkins, No. 1.	.35
59	Cornus Stolonifera Lutea, 3 to 4 ft.	.25	91	Roses, Dorothy Perkins, No. 2.	.30
95	Cornus Stolonifera Lutea, 2 to 3 ft.	.20	13	Spiraea A. Waterer, 15 to 18 ins.	.25
44	Cornus Stolonifera Lutea, 18 to 24 ins.	.15	45	Spiraea A. Waterer, 9 to 12 ins.	.15
69	Cydonia Japonica, 2 to 3 ft.	.30	900	Spiraea Froebeli, 24 ins.	.25
31	Cydonia Japonica, 18 to 24 ins.	.25	1050	Spiraea Froebeli, 18 to 24 ins.	.25
157	Cydonia Japonica, 12 to 18 ins.	.20	145	Spiraea Froebeli, 12 to 18 ins.	.20
355	Deutzia F. of R., 3 to 4 ft.	.25	10	Spiraea Trichocarpa, 2 to 3 ft.	.20
52	Deutzia F. of R., 2 to 3 ft.	.20	101	Spiraea Vanhouttei, 3 to 4 ft.	.30
11	Euonymus Alatus, 12 to 18 ins.	.25	471	Spiraea Vanhouttei, 2 to 3 ft.	.25
22	Euonymus Alatus Comp., 12 to 18 ins.	.30	251	Spiraea Vanhouttei, 18 to 24 ins.	.20
10	Euonymus Alatus Comp., 9 to 12 ins.	.20	25	Stephanandra Flexuosa, 2 to 3 ft.	.30
21	Forsythia Fortunei, 3 to 4 ft.	.25	13	Stephanandra Flexuosa, 18 to 24 ins.	.25
4	Forsythia Fortunei, 2 to 3 ft.	.20	183	Symph. Vulgaris, 3 to 4 ft.	.25
35	Forsythia Spectabilis, 3 to 4 ft.	.25	150	Symph. Vulgaris, 2 to 3 ft.	.20
598	Forsythia Spectabilis, 2 to 3 ft.	.20	11	Symph. Vulgaris, 18 to 24 ins.	.15
205	Forsythia Spectabilis, 18 to 24 ins.	.15	40	Tamarix Amurensis, 3 to 4 ft.	.35
103	Forsythia Viridissima, 3 to 4 ft.	.25	70	Tamarix Amurensis, 2 to 3 ft.	.25
235	Forsythia Viridissima, 2 to 3 ft.	.22	6	Viburnum Dentatum, 3 to 4 ft.	.30
100	Forsythia Viridissima, 18 to 24 ins.	.18	8	Viburnum Dentatum, 18 to 24 ins.	.20
5515	Hydrangea A. G., 3 to 4 ft.	.35	172	Viburnum Opulus, 18 to 24 ins.	.25
1160	Hydrangea A. G., 18 to 24 ins.	.25	133	Viburnum Opulus, 12 to 18 ins.	.20
680	Hydrangea P. G., 3 to 4 ft.	.40	10	Viburnum Tomentosum, 2 to 3 ft.	.25
4874	Ligustrum Amur., 18 to 24 ins.	.10	14	Viburnum Tomentosum, 18 to 24 ins.	.20
5797	Ligustrum Amur., 12 to 18 ins.	.06	684	Wistaria Sinensis, No. 1.	.20
			267	Wistaria Sinensis, No. 2.	.15

LINING-OUT STOCK

	Per 1000		Per 1000	
755	Akebia Quinata, No. 1.	\$25.00	Berberis thunbergi, 2-yr., seedlings, 18 to 24 ins.	\$45.00
2000	Forsythia Spect., 12 to 18 ins., 2 br.	30.00	Berberis thunbergi, 2-yr., seedlings, 12 to 18 ins.	35.00
1400	Forsythia Spect., 12 to 18 ins., 1 br.	25.00	Berberis thunbergi, 2-yr., seedlings, 9 to 13 ins.	30.00
530	Forsythia Suspensa, 18 to 24 ins., branched.	35.00	Berberis thunbergi, 1-yr., seedlings, 6 to 9 ins.	12.00
800	Forsythia Viridissima, 12 to 18 ins.	32,000	Berberis thunbergi, 1-yr., seedlings, 3 to 6 ins.	6.00
600	Forsythia Viridissima, 6 to 12 ins.	20.00	Berberis thunbergi atropurpurea, seedlings,	
200	Ligustrum Regel., 6 to 12 ins., heavy, branched.	20.00	3 to 6 ins.	20.00
500	Philadelphus Grand., 12 to 18 ins.	25.00	Rosa multiflora japonica, seedlings, 6 to 8 mm.	40.00
500	Spiraea Froebeli, 6 to 12 ins.	25.00	Rosa multiflora japonica, seedlings, 4 to 6 mm.	30.00
720	Symphoricarpos Chenaulti, 6 to 12 ins.	30,400	Rosa multiflora japonica, seedlings, 3 to 4 mm.	20.00
1550	Symphoricarpos Vulgaris, 12 to 18 ins.	25.00		

All prices subject to change without notice. Boxing and packing additional.
TERMS: 2% 10 days, net 60. Interest charged after 60 days.

C. L. VANDERBROOK & SON Manchester, Conn.

FLOWERING SHRUBS

In storage; immediate shipment.

	Per 10	Per 100		Per 10	Per 100
<i>Berberis mentorensis</i>			<i>Philadelphus coronarius</i>		
18 to 24 inches.....	\$4.25	\$37.50	2 to 3 feet.....	\$3.50	\$30.00
15 to 18 inches.....	3.50	30.00	18 to 24 inches.....	2.50	22.00
<i>Berberis, Red-leaved</i>			12 to 18 inches.....	1.90	16.00
12 to 15 inches.....	2.90	25.00	<i>Philadelphus virginialis</i>		
<i>Berberis thunbergii</i>			2 to 3 feet.....	5.50	50.00
18 to 24 inches.....	2.90	25.00	18 to 24 inches.....	4.50	40.00
15 to 18 inches.....	2.40	20.00	<i>Rhus canadensis</i>		
12 to 15 inches.....	1.90	16.00	2 to 3 feet.....	3.50	30.00
<i>Buddleia Charming</i>			<i>Spiraea Anthony Waterer</i>		
Medium.....	2.40	20.00	15 to 18 inches.....	3.50	30.00
No. 2.....	1.40	12.00	12 to 15 inches.....	2.90	25.00
<i>Buddleia Dubonnet</i>			<i>Spiraea arguta</i>		
Medium.....	2.40	20.00	2 to 3 feet.....	3.50	30.00
No. 2.....	1.40	12.00	18 to 24 inches.....	2.50	22.00
<i>Buddleia Floralart</i>			<i>Spiraea billiardi</i>		
Medium.....	2.40	20.00	2 to 3 feet.....	2.90	25.00
No. 2.....	1.40	12.00	18 to 24 inches.....	2.10	18.00
<i>Cornus paniculata (racemosa)</i>			<i>Spiraea froebeli</i>		
2 to 3 feet.....	3.50	30.00	18 to 24 inches.....	2.90	25.00
<i>Cydonia japonica</i>			12 to 18 inches.....	2.20	18.00
2 to 3 feet.....	3.50	30.00	<i>Spiraea vanhouttei</i>		
18 to 24 inches.....	2.40	20.00	2 to 3 feet.....	2.90	25.00
12 to 18 inches.....	1.80	15.00	18 to 24 inches.....	2.10	18.00
<i>Deutzia Pride of Rochester</i>			<i>Symphoricarpos chenaulti</i>		
3 to 4 feet.....	4.00	35.00	18 to 24 inches.....	2.10	18.00
2 to 3 feet.....	3.50	30.00	<i>Symphoricarpos mollis</i>		
18 to 24 inches.....	2.50	22.00	2 to 3 feet.....	2.90	25.00
<i>Forsythia intermedia spectabilis</i>			18 to 24 inches.....	2.10	18.00
3 to 4 feet.....	4.00	35.00	<i>Symphoricarpos vulgaris</i>		
2 to 3 feet.....	3.50	30.00	18 to 24 inches.....	2.10	18.00
18 to 24 inches.....	2.50	22.00	<i>Tamarix africana</i>		
<i>Honeysuckle, fragrantissima</i>			3 to 4 feet.....	4.00	35.00
3 to 4 feet.....	4.00	35.00	2 to 3 feet.....	3.50	30.00
<i>Honeysuckle, tatarian, pink</i>			18 to 24 inches.....	2.50	22.00
2 to 3 feet.....	3.50	30.00	<i>Tamarix hispida</i>		
<i>Honeysuckle, tatarian, red</i>			3 to 4 feet.....	4.00	35.00
3 to 4 feet.....	4.00	35.00	2 to 3 feet.....	3.50	30.00
2 to 3 feet.....	3.50	30.00	12 to 18 inches.....	2.50	22.00
<i>Hydrangea arborescens</i>			<i>Weigela rosea</i>		
<i>grandiflora</i>			2 to 3 feet.....	3.50	30.00
2 to 3 feet.....	5.50	50.00	18 to 24 inches.....	2.50	22.00
18 to 24 inches.....	4.50	40.00	12 to 18 inches.....	1.90	16.00
<i>Hydrangea Peegee</i>			<i>Willow, Pussy</i>		
3 to 3 1/2 feet.....	6.50	60.00	2 to 3 feet.....	3.50	30.00
2 to 3 feet.....	5.50	50.00	18 to 24 inches.....	2.40	20.00
18 to 24 inches.....	4.50	40.00	12 to 18 inches.....	1.70	14.00
12 to 18 inches.....	3.50	30.00	<i>Willow, Bluestem (Irrorata)</i>		
<i>Kolkwitzia amabilis</i>			3 to 4 feet.....	4.00	35.00
(Beauty Bush)			2 to 3 feet.....	3.50	30.00
2 to 3 feet.....	6.00	55.00	18 to 24 inches.....	2.50	22.00
<i>Lilac, rothomagensis</i>			<i>Willow, Blue-leaved Arctic</i>		
18 to 24 inches.....	3.50	30.00	12 to 18 inches.....	2.40	20.00
12 to 18 inches.....	2.40	20.00			

WILLIS NURSERY CO.

"Your wholesale nurserymen"

OTTAWA, KANSAS

the state. On the committee are C. E. Garee, Noble Nursery, Noble, chairman; Jim Parker, Parker Nursery, Tecumseh, and Ben Davis, Tahlequah.

Reporting on the program of the work, Dr. Chester said: "Since Oklahoma is relatively free from virus disease troubles while many other states suffer seriously from these diseases, it was pointed out last year that Oklahoma has a rare opportunity to develop a national market for stone fruit nursery stock, taking advantage of the disease-free condition. It was also proposed that the college might furnish Oklahoma nurserymen with their entire supply of stone fruit budwood, amounting to about 1,000,000 buds a year."

Dr. Chester told of a recent meeting at the college where this plan was thoroughly discussed. "The budwood committee felt that this was unwise, since home-grown buds give better results in proportion than buds which are shipped in," he said. "The committee felt that it would be more satisfactory if the college would supply nurserymen with a small quantity of certified buds from disease-free trees of true-to-name varieties. The nurseryman could increase these to provide himself with a sufficient supply of budwood for all of his requirements a year later. This procedure would be much like that which is followed by the Oklahoma Crop Improvement Association in which farmers are supplied with foundation seeds grown by the college, and these are increased and sold as certified seeds by the farmer in succeeding years."

At the meeting Dr. Louis Hawkins, vice-director of the Oklahoma agricultural experiment station, presented the legal aspects of a certification law. He pointed out that according to the seed and plant law passed by the Oklahoma legislature in 1937 the certification of seeds or plant propagating materials in Oklahoma is authorized only through the Oklahoma A. & M. College. The law directs the agricultural experiment station and the agricultural extension division of the college to certify propagating materials or to designate an agency to do the certifying. The latter, according to Dr. Chester, has been done, the Oklahoma Crop Improvement Association being the agency designated. The association works in close cooperation with the experiment station and the extension division.

"Your committee considered the advisability of developing a budwood certification program by making use

[Continued on page 57.]

MUGHO PINES, CHINESE PINES and LINING-OUT STOCK

Take a look at these prices and order NOW.

		Per 100	Per 1000
Abies nobilis (Noble Fir)			
The name noble describes this magnificent tree perfectly. The foliage is a beautiful bluish green. It is valuable for landscaping purposes and the best of all for the production of Christmas trees. Very hardy.			
6 to 12 inches, not transplanted.....	\$11.00	\$	\$8.00
12 to 18 inches, not transplanted.....	14.00		112.00
Agave reptans rubra (Purple-leaf Bugle)			
A worthy rock plant and evergreen ground cover.			
1-year plants.....	6.00		48.00
Azalea amoena coccinea			
A splendid dwarf evergreen azalea. Foliage dark, glossy, compact. Flowers bright red completely covering the plant.			
2 to 4 inches, once transplanted.....	10.00		80.00
Azalea hinodogiri (Crimson Azalea from cuttings)			
Dwarf, very compact evergreen azalea. When in bloom the plant is completely covered with bright red flowers.			
2 to 4 inches, once transplanted.....	12.00		96.00
Azalea maxwellii (Maxwell Azalea)			
Foliage heavy and luxuriant. Low growing. Flowers extremely large, carmine-red, completely covering the plant. Hardy evergreen.			
4 to 8 inches, once transplanted.....	12.00		96.00
Azalea sherwoodii (Sherwood Orchid Azalea)			
Foliage the size of the Crimson Azalea but the plant is hardier. Flowers are a clear lavender with speckled throat, completely cover the plant and are large for a dwarf azalea. Evergreen.			
4 to 8 inches, once transplanted.....	12.00		96.00
Calluna vulgaris nana (Moss Heather)			
A dainty dwarf of mosslike appearance, 4 inches tall. One of the loveliest evergreens. Rare. Very hardy.			
3 to 6 inches, once transplanted.....	12.00		96.00
Castanopsis sempervirens (Bush Chinquapin)			
One of Oregon's native evergreens. Grows only 5 to 6 feet high. In our mountains it sometimes covers dry open slopes where only the hardiest plants can survive the summer's heat and winter's cold. Foliage very dense. Flowers in white clusters. Bush Chinquapin is a fine foundation shrub, also good for hedges and borders. It is unexcelled for large banks and terraces.			
6 to 12 inches, once transplanted.....	15.00		120.00
Chamaecyparis lawsoniana cerula			
Branches vertical and very close to the trunk of the tree. As slender as a Pyramidal Arborvitae. Foliage blue.			
4 to 8 inches, once transplanted.....	12.00		96.00
Chamaecyparis lawsoniana erecta aurea			
(Gold Column Cypress)			
Beautiful golden form of the Green Column Cypress. An extremely golden evergreen the year around.			
4 to 10 inches, once transplanted.....	11.00		88.00
Chamaecyparis lawsoniana erecta glauca			
(Blue Column Cypress) (Allumi)			
Erect in growth, with vertical foliage of blue.			
6 to 10 inches, once transplanted.....	12.00		96.00
Chamaecyparis lawsoniana erecta viridis			
(Green Column Cypress)			
A pyramid of green, with dense vertical foliage.			
6 to 10 inches, once transplanted.....	12.00		96.00
Choisya ternata (Ternate Mexican Orange)			
A dense, evergreen shrub, 4 to 5 feet in height, with glossy foliage. Fragrant, white flowers.			
4 to 10 inches, once transplanted.....	10.00		80.00
Cotoneaster dammeri (humifusa) (Bearberry Cotoneaster)			
A small evergreen creeper. Bears red berries in profusion. Never grows more than 6 inches tall.			
4 to 10 inches, once transplanted.....	10.00		80.00
10 to 18 inches, once transplanted.....	15.00		120.00
Cotoneaster horizontalis (Rock Cotoneaster)			
Bears masses of red berries in the fall that are carried well into the winter. Hardy. Deciduous.			
2 to 6 inches, not transplanted.....	8.00		64.00
6 to 12 inches, not transplanted.....	12.00		96.00
Cunninghamia lanceolata (Chinese Fir)			
Foliage green and bronze. An irregular pyramid, an aristocrat. Hardy.			
12 to 18 inches, not transplanted.....	15.00		120.00
Erica mediterranea maxima			
Upright heather to 4 or 5 feet. Fine, dense foliage and a wealth of lovely purple flowers.			
10 to 15 inches, once transplanted.....	13.00		104.00
Erica mediterranea hybrida (Darley Heath)			
Hardy and dwarf, 1 foot in height. Beautiful, dense, dark green foliage, and from early winter to late spring is covered with such a profusion of lovely purplish blossoms that the foliage is practically obscured.			
3 to 8 inches, once transplanted.....	\$10.00	\$	\$80.00
Euonymus radicans coloratus (Purpleleaf Wintercreeper)			
A trailing evergreen form of unsurpassed merit. It takes on rich colorings of red and bronze. Very hardy.			
12 to 24 inches, once transplanted.....	15.00		120.00
Hedera helix conglomerata (Bunchleaf English Ivy)			
Leaves crowded, contorted, giving a pleasing massed effect, flat upon the ground.			
2 to 4 inches, once transplanted.....	9.00		72.00
4 to 8 inches, once transplanted.....	12.00		96.00
Juniperus virginiana (Red Cedar)			
6 to 12 inches, not transplanted.....	9.00		72.00
12 to 18 inches, not transplanted.....	12.00		96.00
Kalmia latifolia (Mountain Laurel)			
When in bloom the plants are literally bouquets of lovely, cup-shaped flowers, from white to deep pink.			
2 to 6 inches, once transplanted.....	10.00		80.00
6 to 12 inches, once transplanted.....	16.00		128.00
Mahonia nervosa (Longleaf Hollygrape)			
12 to 18 inches tall. Foliage dark green turning to most beautiful shades of brilliant red and bronze. Does well in sun or shade. Thrives under conifers. Very hardy.			
6 to 10 inches, not transplanted.....	10.00		80.00
Picea engelmanni (Engelmann Spruce)			
4 to 8 inches, not transplanted.....	7.00		56.00
Picea glauca albertiana (Alberta White Spruce)			
Large-growing hardy tree, narrow pyramidal habit, dense foliage.			
12 to 18 inches, once transplanted.....	16.00		128.00
18 to 24 inches, once transplanted.....	20.00		160.00
Picea pungens glauca (Colorado Spruce)			
1 to 4 inches, not transplanted.....	5.00		40.00
Rhododendron maximum (Rosebay Rhododendron)			
Large shrub. Leaves dark green, lustrous above. Flowers usually rose colored in large clusters.			
4 to 8 inches, once transplanted.....	20.00		160.00
Teucrium chamaedrys prostratum (Dwarf Germander)			
A low-growing mat, 6 inches high. Foliage dark green, flowers lavender. Rapid-growing, desirable ground cover.			
1-year, once transplanted.....	8.00		64.00
Thuja occidentalis (American Arborvitae)			
6 to 12 inches, twice transplanted.....	11.00		88.00
Tsuga canadensis (Canada Hemlock)			
12 to 18 inches, once transplanted.....	16.00		128.00
Tsuga heterophylla (Western Hemlock)			
The Western Hemlock is very similar to Tsuga canadensis. The foliage is slightly heavier with a beautiful luster.			
6 to 12 inches, once transplanted.....	10.00		80.00
12 to 18 inches, once transplanted.....	16.00		128.00
SUPERBLY FINISHED BAB STOCK			
Pinus mughus compacta (Mugho Pine)			
A dense, stout dwarf evergreen of unquestionable hardiness, without a peer as a dwarf mountain evergreen. Very dense, compact and deep green summer and winter. Our trees are grown from selected seeds of the best type and are of very uniform quality.			
12 to 15 inches, TTT, B&B.....	\$1.10	\$	\$0.90 \$ 89.00
15 to 18 inches, TTT, B&B.....	1.25	11.20	101.00
18 to 24 inches, TTT, B&B.....	1.50	13.50	122.00
Pinus tabulaeformis (Chinese Pine)			
A medium-sized conifer. Needles 2 to 4 inches long. The foliage is a distinctive and decidedly pleasing shade of green, and is in this respect unquestionably the finest of any conifer that we are growing. It could hardly be surpassed for large banks and hillside plantings. Hardy into New England. Rare.			
15 to 18 inches, TTT, B&B.....	\$0.70	\$	\$ 6.30 \$ 57.00
18 to 24 inches, TTT, B&B.....	.90	8.10	73.00
24 to 30 inches, TTT, B&B.....	1.35	12.20	109.00
30 to 36 inches, TTT, B&B.....	1.65	14.90	134.00
All of the above grades are sheared specimens. They are superb.			

Terms: Cash. No packing charge. Prices on lining-out stock include delivery to any point in the United States.

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Plant Notes Here and There

By C. W. Wood

It has been on my mind for some time to say a few words about the status of gardening in America insofar as it affects the growers of hardy plants. A recent tirade in an amateur publication, claiming that we are mediocre, brings the matter to the boiling point.

It seems to be a favorite year-around sport of some horticultural writers in the United States to tell us how poor we gardeners are. They seem to take special delight in comparing our beginner efforts with those of gardeners in Old World countries, who have centuries of experience and precept back of them, and in pointing out our real and imaginary shortcomings as horticulturists. In brief, we are a lot of poor, benighted never-have-beens, if we are to believe the self-appointed critics.

I have a notion that much of this wailing is the result of an inferiority complex. In any case, it is not disturbing the rank and file of gardeners, for we are going joyfully ahead in our so-called blissful ignorance, and we are accomplishing things, too.

America is today, in my opinion, the best place in the world for an enthusiastic soul to become imbued with the gardening spirit. The pages upon which we are to paint our garden pictures are practically clean, and our progress is hindered by few of the taboos and precedents which permeate the horticultural practices of older countries. With an untouched canvas, with the overflowing enthusiasm and energy of a young race, with the benefit of a widely varying climate and soil and numberless other advantages, America is in line for a brilliant future in the horticultural field. Our possibilities are practically limitless.

Since colonial days earnest souls have been laying a solid groundwork upon which our horticultural structure (to change the metaphor) may rest in security. This preliminary work, the result of the combined labors of horticulturists from Nicolo Monardes, who was probably the first writer on American plants, down to the present, has culminated in national, state and local horticultural societies, garden clubs, specialty clubs and other organizations and horticultural publications with the betterment of American horticulture as their object. With this fine foundation upon which to build, we are starting a horticultural structure

which may well be, if we build with wisdom, the finest in the world.

It is not to be hoped, of course, that all the thousands of builders who will add their mite to the structure will agree to what should and should not go into the building. This should not dismay us, for the wisdom of the many will eventually outweigh the folly of the few, and in the end the structure will surely be a credit to the architects. If poor material is used in any part of the building or if false ideas are advanced at any time, subsequent inspection will detect the flaws, and they will be corrected. If it were not for this ultimate outcome, I should not have the timidity to say what I think should go into the edifice.

It seems to me that we began much too early in the construction to think about the harmonious color effect of the finished product. We have spent far more energy in that more or less unessential phase than we are now spending in the really serious task of building a strong framework. So much harm has been done to the important phases of gardening in overemphasizing color harmony that I am of the opinion that we could lay aside with profit much of the agi-

tation which is now confusing some of our best brains.

As an example of what I attempted to say, perhaps unsuccessfully, in the preceding paragraph, let us examine for a moment the matter of pastel colors and their overemphasis. During the ascendancy of pastel advocates, it was a common experience to go into garden after garden and never see a true color. It was a subdued shade here, an even more subdued shade there and absence of color everywhere, until one's soul cried out for a touch of scarlet or even the much-maligned magenta. Let us rejoice in the fact that we are now being purged of the pastels. It should be a part of our future policy to see that the spurious theory is rejected if it is introduced again. Being a disciple of individualism, I cannot subscribe to a standardized color harmony. It seems to me that that sort of color harmony does not make for harmony of effort along other and more important lines.

Barrels of ink, much effort and not a little gray matter have been consumed in debates between supporters of the formal and natural schools of gardening. Rather than go into a lengthy discussion of the matter, may

LINING-OUT EVERGREENS

	Per 100	Per 1000
<i>Juniperus horizontalis plumosa</i> (Andorra Juniper), 2-yr., from 2 1/2-in. rose pots.....	\$20.00	\$175.00
<i>Picea glauca densata</i> (Black Hill Spruce), 6 to 8 ins., xx, seedlings.....	22.50	200.00
9 to 12 ins., xx, seedlings.....	27.50	250.00
12 to 15 ins., xx, seedlings.....	32.50	.....
<i>Taxus capitata</i> (Upright Yew), 6 to 8 ins., 2 yr., from 2 1/2-in. rose pots.....	40.00	375.00
9 to 12 ins., xxx, 3-yr., from open beds.....	100.00	900.00
12 to 15 ins., xxx, 3-yr., from open beds.....	150.00	1250.00
15 to 18 ins., xxx, 3-yr., from open beds.....	185.00	1750.00
<i>Taxus cuspidata</i> (Spreading Yew), 2-yr., from 2 1/2-in. rose pots.....	25.00	225.00
9 to 12 ins., xx, 3-yr., from open beds.....	40.00	375.00
<i>Taxus cuspidata intermedia</i> (Intermedia Yew), 2-yr., from 2 1/2-in. rose pots.....	25.00	225.00
<i>Taxus cuspidata thayerae</i> (Thayer's Yew), 2-yr., from 2 1/2-in. rose pots.....	25.00	225.00
<i>Taxus media andersoni</i> (Anderson Yew), 2-yr., from 2 1/2-in. rose pots.....	25.00	225.00
<i>Taxus media brownii</i> (Brown's Yew), 2-yr., from 2 1/2-in. rose pots.....	25.00	225.00
<i>Taxus media hicksii</i> (Hicks' Yew), 2-yr., from 2 1/2-in. rose pots.....	25.00	225.00
6 to 9 ins., xx, 3-yr., from open beds.....	32.00	300.00
<i>Taxus media</i> (Anglejap Yew), 2-yr., from 2 1/2-in. rose pots.....	25.00	225.00
50 at 100 rate.	300 at 1000 rate.	

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Jan. 29, 1948

MEMBERS
Illinois State Nurserymen
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Ra-Pid-Gro Corp.,
Dansville, N.Y.

Gentlemen:

Last July we started budding a block of 200,000 Peach Seedlings; after about ten days of one hundred degrees in the shade, the bark began to get tight. We immediately sprayed the foliage of our Seedlings with Ra-Pid-Gro as per directions and within forty-eight hours the bark began to loosen and the sap continued to stay up until late November.

We also noticed that we got a much darker foliage and from two to four inches more new growth on the trees that had been sprayed than we had on the unsprayed trees, which were budded earlier.

We are now ordering a supply of Ra-Pid-Gro, which we expect to have on hand at all times.

Very truly yours,

Leo H. Graves
Leo H. Graves
EGYPTIAN NURSERY & LANDSCAPE CO.

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For over 30 years, the manufacturer of Ra-Pid-Gro has claimed that plants can be fed through their foliage. This letter is proof of his claims. For huskier, healthier stock, satisfied customers and repeat business use Ra-Pid-Gro.

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25 at the 100 rate; 300 at the 1000 rate.

500 plants, in a variety of not less than 100 each, at 1000 rate. 10% discount on orders of 5000 plants and over.

	Each per 100	Each per 1000		Each per 100	Each per 1000
Arborvitae, Dwarf Globe,			Taxus brevifolia, X, 2 to 4 ins.	\$.18	..
X, 3 to 6 ins.	\$.15	\$.14	Taxus capitata, X, 4 to 6 ins.	.16	\$.15
Azalea, Ghent Hybrids,			Taxus cuspidata, X, 3 to 5 ins.	.15	.14
X, 1 to 2 ins.	.14	.12	Taxus cuspidata, X, 5 to 7 ins.	.18	.17
Azalea, Ghent Hybrids,			Tsuga canadensis, XX, 6 to 8 ins.	.22	.21
XX, 2 to 4 ins.	.18	.17	Tsuga canadensis,		
Azalea, Ghent Hybrids,			XX, 8 to 12 ins.	.27	.25
XX, 4 to 6 ins.	.25	.23	Viburnum opulus nanum,		
Azalea, Ghent Hybrids,			X, 2 to 6 ins.	.10	.09
XX, 6 to 9 ins.	.35	.32	Vitex agnuscastus (Chaste tree),		
Azalea mollis, X, 1 to 3 ins.	.10	.09	S, 3 to 6 ins.	.06	.05
Azalea mollis, XX, 2 to 4 ins.	.14	.13	Vitex agnuscastus (Chaste tree),		
Azalea mollis, XX, 4 to 6 ins.	.25	..	X, 5 to 12 ins.	.12	.10
Azalea mollis, yellow, XX,			Order not less than 25 of a variety. 25 at the 100 rate; 300 at the 1000 rate.		
2 to 4 ins.	.25	..			
Colorado Blue Spruce,			ROOTED CUTTINGS		
X, 2 to 4 ins.	.09	.08	Ilex crenata, 2 to 4 ins.	.08	.07½
Cornus capitata, S, 6 to 12 ins.	.06	.06	Ilex crenata convexa (bullata),		
Cypress, Lawson, S, 4 to 8 ins.	.06	.05	2 to 4 ins.	.09	.08½
Cypress, Lawson, X, 4 to 8 ins.	.20	.18	Ilex glabra (Inkberry),		
Cytisus scoparius (Scotch			2 to 4 ins.	.12	.11½
Broom), S, 4 to 8 ins.	.06	.05	Ilex rotundifolia, 2 to 4 ins.	.09	.08½
Cytisus scoparius, S, 8 to 12 ins.	.10	.08	Buxus koriana microphylla,		
Euonymus carrierei, X,			2 to 4 ins.	.10	..
4 to 8 ins.	.10	.09	Buxus sempervirens, 2 to 4 ins.	.08	..
Euonymus coloratus, X,			Buxus suffruticosa, 2 to 4 ins.	.08	..
4 to 8 ins.	.09	.08	Chamaecyparis allami,		
Euonymus europaeus, S,			3 to 6 ins.	.08	.07½
6 to 10 ins.	.06	.05	Chamaecyparis allami,		
Euonymus fortunei erecta, X,			5 to 8 ins.	.11	.10
6 to 10 ins.	.10	.09	Juniper, Andorra, 3 to 5 ins.	.08	.07½
Euonymus vegetus, X, 4 to 8 ins.	.10	.09	Juniper, Andorra, 6 to 8 ins.	.11	.10
Ilex crenata convexa (bullata),			Juniperus glauca hetzi		
X, 5 to 4 ins.	.14	.13	(Blue spr.), 3 to 5 ins.	.10	.09
Ilex glabra (Inkberry), X,			Juniperus glauca hetzi		
2 to 4 ins.	.15	.14	(Blue spr.), 5 to 9 ins.	.12	.11
Ilex rotundifolia, X, 2 to 4 ins.	.14	.13	Juniperus glauca horizontalis,		
Juniper, Andorra, X, 2 to 4 ins.	.14	.13	3 to 5 ins.	.09	.08
Juniper, Andorra, X, 6 to 9 ins.	.17	.16	Juniperus glauca horizontalis,		
Juniperus glauca hetzi,			5 to 9 ins.	.11	.10
X, 4 to 6 ins.	.25	..	Juniper, Irish, 3 to 5 ins.	.08	.07½
Juniperus glauca hetzi,			Juniper, Irish, 6 to 9 ins.	.12	.11
X, 6 to 9 ins.	.30	..	Juniperus chinensis pitteriana,		
Juniper, Irish, X, 6 to 8 ins.	.20	..	4 to 8 ins.	.13	.11
Juniperus excelsa stricta,			Juniperus pitteriana, Hill's		
X, 3 to 6 ins.	.20	..	Golden, 3 to 5 ins.	.14	.13
Juniperus virginiana,			Juniperus excelsa stricta		
X, 4 to 6 ins.	.10	..	(Spiny Greek), 4 to 8 ins.	.12	.11
Leucothoe catesbaei (Mountain			Retinospora filifera, 4 to 8 ins.	.10	.09
Andromeda), XX, 3 to 6 ins.	.18	.17	Retinospora filifera aurea,		
Mahonia aquifolium (Oregon			4 to 8 ins.	.10	.09
Grape Holly), S, 2 to 6 ins.	.06	.05	Retinospora plumosa, 2 to 4 ins.	.10	.09
Maple, Silver (Acer dasy-			Retinospora plumosa, 4 to 8 ins.	.10	.09
carpum), S, 2 to 3 ft.	.10	.08	Retinospora plumosa aurea,		
Philadelphus coronarius,			4 to 6 ins.	.10	.09
X, 12 to 18 ins.	.12	..	Retinospora squarrosa, 2 to 6 ins.	.10	.09
Pteris Japonica, XX, 3 to 5 ins.	.20	.18	Taxus brevifolia, 2 to 4 ins.	.10	.09
Privet, Regel (sdlg.-grown),			Taxus capitata, 3 to 5 ins.	.08	.07½
XX, 12 to 18 ins.	.07	.06	Taxus cuspidata, 5 to 9 ins.	.10	.09
Privet, Regel (sdlg.-grown),			Taxus cuspidata, 3 to 5 ins.	.08	.07½
XX, 18 to 24 ins.	.09	.08	Taxus cuspidata, 5 to 9 ins.	.10	.09
Rhododendron, Hybrid (Grown			Taxus hicksii, 3 to 5 ins.	.08	.07½
from seeds; from red-blooming			Taxus hicksii, 5 to 9 ins.	.10	.09
plants), X, 1 to 2 ins.	.14	.13	Thuja, Globe Arborvitae,		
Rhododendron, Hybrid,			3 to 6 ins.	.08	.07½
XX, 2 to 4 ins.	.25	.22	Thuja, Globe Arborvitae,		
Rhododendron, Hybrid,			5 to 7 ins.	.09	.08
X, 2 to 6 ins.	.32	.30	Thuja elegantissima lutea,		
Rhododendron, Hybrid,			3 to 5 ins.	.08	.07½
XX, 4 to 6 ins.	.45	.42	Thuja elegantissima lutea,		
Rhododendron, Hybrid,			6 to 7 ins.	.11	.10
XXX, 6 to 9 ins.	.75	.70	Thuja ellwangeriana		
Rhododendron, Hybrid,			(Tom Thumb), 2 to 5 ins.	.07	.06½
XXX, 9 to 12 ins.	1.00	.95	Thuja plicata, 5 to 8 ins.	.09	.08
Rhododendron, Hybrid,			Thuja plicata Douglas, 3 to 5 ins.	.08	.07
XXX, 12 to 15 ins.	1.60	..	Thuja pyramidalis, 2 to 5 ins.	.08	.07½
			Thuja pyramidalis, 5 to 8 ins.	.11	.10

Rooted cuttings will be ready after April 15 in many varieties; others will be ready during early summer. Order not less than 25 of a variety. 25 at 100 rate; 300 at 1000 rate.

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GENEVA, NEW YORK

Phone 2974

I ask serious gardeners one question? Why not combine the best practices of these methods rather than slavishly follow either of them? If one has acres of land and an abundance of money for a garden venture, it is likely that a good picture would result from following the school of naturalism. But you and I, within the limits of a small city lot, are going to find ourselves in a sad predicament if we attempt to follow the same principles. The results, in the latter case, are apt to be on the order of a miniature Matterhorn set down in the center of a city lot or some other grotesque apparition. On the other hand, the strictly formal planting of an entire home garden is extremely out of line with present-day thought. I have a notion, however, that we may combine the best features of both schools and benefit by the combination.

All of which reminds me that the future popularity of rock gardening depends largely upon how practitioners, including commercial men, handle the art during the next few years. If we continue, regardless of our setting, to construct duplicates of some favorite alpine scene, rock gardening is marked for a permanent decline. How absurd it is to attempt to depict a Rocky mountain canyon in the back yard of a city dwelling. How incongruous an alpine scene looks in the middle of a closely shaven, level lawn. If we do not design our rock gardens to harmonize with our surroundings, that whole phase of gardening is going to fall into disrepute.

Yet this is a great day to be gardening in America. The opportunities for service are boundless. If we are seeking self-aggrandizement—material, social or spiritual—it is here. It may be that we shall have our names blazoned high on the walls of horticulture. Most assuredly, we shall be well repaid for every honest effort we put into the work.

Shady Situations.

A Wisconsin reader, in requesting a short list of plants a foot or less in height for a situation in half shade or slightly less, tells of his difficulty with a planting made in the same area three years ago. His trouble lies, I believe, in the fact that he did not take into consideration the amount of fertility and moisture needed by tree roots. One is inclined to view shady places in the same manner as woodlands where the accumulation of leaves throughout the years has created a thick carpet of leaf mold. In the garden we do not find these conditions, for shaded areas there are usually limited in extent and are kept

SHRUBS and VINES

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The Shrubs listed below have been liberally graded, are well branched and well rooted. We are sure they will please you.

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ALTHAEA	Per	Per	Per
(Hibiscus Syriacus)	10	100	1000
12 to 18 ins.	\$1.50	\$12.00	\$100.00
18 to 24 ins.	2.10	18.00	150.00
2 to 3 ft.	2.90	25.00	225.00

Anemoneaeflorus	12 to 18 ins.	2 to 3 ft.
Boule de Feu	1200	500
Jeanne d'Arc	750	350
Lucy	2000	2500
Purpurea semplenus	750	300
Snowdrift	Per	Per
	10	100

BERBERIS THUNBERGI	Per	Per	Per
3000 12 to 15 ins.	\$1.90	\$16.00	\$140.00
2000 16 to 18 ins.	2.40	20.00	180.00
3000 18 to 24 ins.	2.90	25.00	220.00
1000 2 to 3 ft.	3.50	30.00	270.00

BUTTERFLY BUSH	Per	Per	Per
(Buddleia)	10	100	1000
Charming	1000	1700	750
Duboune	1500	2000	2000
1500 No. 1	2.60	22.00	200.00
3000 Medium	2.10	18.00	160.00

CEPHALANTHUS	Per	Per	Per
(Buttonbush)	10	100	1000
1000 Medium	2.40	20.00	180.00
Red Glory	1000	1700	750
1000 Medium	2.40	20.00	180.00

CORNUS (Dogwood)	Per	Per	Per
Alba Sibirica	10	100	1000
Coral Dogwood	1000	1700	750
1500 12 to 18 ins.	1.90	16.00	140.00
1500 18 to 24 ins.	2.50	22.00	200.00
800 2 to 3 ft.	3.50	30.00	270.00

STOLONIFERA	Per	Per	Per
(Redosier Dogwood)	10	100	1000
750 12 to 18 ins.	1.90	16.00	140.00
1000 18 to 24 ins.	2.50	22.00	200.00
1000 2 to 3 ft.	3.50	30.00	270.00

STOLONIFERA LUTEA	Per	Per	Per
(Gold Twig Dogwood)	10	100	1000
2000 12 to 18 ins.	1.90	16.00	140.00
1500 18 to 24 ins.	2.50	22.00	200.00

CYDONIA JAPONICA	Per	Per	Per
(Japanese Flowering Quince)	10	100	1000
1500 12 to 18 ins.	1.80	15.00	125.00
400 18 to 24 ins.	2.40	20.00	175.00
1000 2 to 3 ft.	3.20	28.00	250.00
300 3 to 4 ft.	4.00	35.00	300.00

DEUTZIA	Per	Per	Per
Gracilis	10	100	1000
(Slender or Dwarf Deutzia)	1000	1700	750
1500 9 to 12 ins.	1.90	16.00	140.00

LEMOLINE (Lemoine)	Per	Per	Per
400 12 to 18 ins.	2.50	22.00	200.00
600 18 to 24 ins.	3.50	30.00	270.00

PRIDE OF ROCHESTER	Per	Per	Per
400 18 to 24 ins.	2.50	22.00	200.00
600 2 to 3 ft.	3.50	30.00	270.00

HONEYSUCKLE	Per	Per	Per
(Lonicera)	10	100	1000
Grandiflora Rosea	1000	1700	750
100 12 to 18 ins.	1.90	16.00	140.00
500 18 to 24 ins.	2.50	22.00	200.00
600 2 to 3 ft.	3.50	30.00	270.00
300 3 to 4 ft.	4.50	40.00	350.00

TATARIAN, PINK	Per	Per	Per
(Tatarica Rosea)	10	100	1000
150 12 to 18 ins.	1.90	16.00	140.00
1000 18 to 24 ins.	2.50	22.00	200.00
1000 2 to 3 ft.	3.50	30.00	270.00
1000 3 to 4 ft.	4.50	40.00	350.00

HONEYSUCKLE, (Cont.)	Per	Per	Per
Tatarian, Red	10	100	1000
(Tatarica Rubra)	1000	1700	750
300 12 to 18 ins.	\$1.90	\$16.00	\$140.00
1000 18 to 24 ins.	2.50	22.00	200.00

HYDRANGEA	Per	Per	Per
Arborecens Grandiflora	10	100	1000
(Hills of Snow)	1000	1700	750
3000 12 to 18 ins.	3.50	30.00	270.00
1000 18 to 24 ins.	4.50	40.00	350.00
4000 2 to 3 ft.	5.50	50.00	450.00
1000 3 to 4 ft.	6.50	60.00	550.00

Paniculata Grandiflora	Per	Per	Per
(Peegee Hydrangea)	10	100	1000
200 12 to 18 ins.	3.50	30.00	270.00
2000 18 to 24 ins.	5.50	50.00	450.00
3000 3 to 4 ft.	6.50	60.00	550.00

LILAC (Syringa)	Per	Per	Per
Common Purple	10	100	1000
(Vulgaris)	1000	1700	750
200 12 to 18 ins.	2.10	18.00	160.00
2500 18 to 24 ins.	2.90	25.00	220.00
200 2 to 3 ft.	3.50	30.00	270.00

Common White	Per	Per	Per
(Vulgaris Alba)	10	100	1000
200 12 to 18 ins.	2.50	22.00	200.00
2000 18 to 24 ins.	2.50	22.00	200.00
1200 18 to 24 ins.	2.50	22.00	200.00

PHILADELPHUS	Per	Per	Per
(Mock Orange; Syringa)	10	100	1000
Coronarius (Sweet Mock Orange)	1000	1700	750
1000 12 to 18 ins.	1.90	16.00	140.00
1200 18 to 24 ins.	2.50	22.00	200.00

Grandiflorus (Scintless)	Per	Per	Per
Mock Orange	10	100	1000
1500 12 to 18 ins.	1.90	16.00	140.00
500 18 to 24 ins.	2.50	22.00	200.00

Lemoinei (Lemoine)	Per	Per	Per
Mock Orange	10	100	1000
400 12 to 18 ins.	2.10	18.00	160.00
1000 18 to 24 ins.	3.20	28.00	250.00

PHYTOCARPUS (Ninebark)	Per	Per	Per
Opulifolius Aureus	10	100	1000
(Gold-leaved Ninebark)	1000	1700	750
1000 12 to 18 ins.	1.90	16.00	140.00
1000 18 to 24 ins.	2.50	22.00	200.00

Opulifolius Nana	Per	Per	Per
(Dwarf Ninebark)	10	100	1000
500 18 to 24 ins.	2.50	22.00	200.00
900 2 to 3 ft.	3.50	30.00	270.00

RHUS (Sumac)	Per	Per	Per
Aromatic (Canadensis)	10	100	1000
(Fragrant Sumac)	1000	1700	750
500 12 to 18 ins.	2.40	20.00	180.00
750 18 to 24 ins.	2.90	25.00	220.00
200 2 to 3 ft.	3.50	30.00	270.00

Cut Leaf	Per	Per	Per
(Typhina Laciniata)	10	100	1000
500 12 to 18 ins.	2.40	20.00	180.00
100 18 to 24 ins.	2.90	25.00	220.00

Smooth (Glabra)	Per	Per	Per
750 12 to 18 ins.	1.70	14.00	120.00
100 18 to 24 ins.	2.40	20.00	180.00
200 2 to 3 ft.	2.90	25.00	220.00

Staghorn	Per	Per	Per
300 12 to 18 ins.	1.70	14.00	120.00
300 18 to 24 ins.	2.40	20.00	180.00
300 2 to 3 ft.	2.90	25.00	220.00

SPIRAEA	Per	Per	Per
Arguta (Garland)	10	100	1000
2500 18 to 24 ins.	2.50	22.00	200.00
500 2 to 3 ft.	3.50	30.00	270.00
Billardi, Pink	1000	1700	750
7000 12 to 18 ins.	1.90	16.00	140.00
750 18 to 24 ins.	2.50	22.00	200.00
1500 2 to 3 ft.	3.50	30.00	270.00

SPIRAEA, (Cont.)	Per	Per	Per
Vanhouttei	10	100	1000
4000 12 to 18 ins.	\$1.40	\$12.00	\$100.00
1500 18 to 24 ins.	1.90	16.00	140.00
6000 2 to 3 ft.	2.50	22.00	200.00
1000 3 to 4 ft.	3.50	30.00	270.00

SYMPHORICARPOS	Per	Per	Per
(Snowberry)	10	100	1000
Chenaulti (Improved Coralberry)	1000	1700	750
300 12 to 18 ins.	1.60	14.00	120.00
1000 18 to 24 ins.	2.10	18.00	160.00

Racemosus (Common)	Per	Per	Per
White Snowberry	10	100	1000
750 18 to 24 ins.	2.10	18.00	160.00
1000 2 to 3 ft.	2.90	25.00	220.00

Vulgaris (Indian)	Per	Per	Per
Current; Coralberry	10	100	1000
400 12 to 18 ins.	1.60	14.00	120.00
1500 18 to 24 ins.	2.10	18.00	160.00
750 2 to 3 ft.	2.90	25.00	220.00

VIBURNUM	Per	Per	Per
Dentatum (Arrowwood)	10	100	1000
200 12 to 18 ins.	1.80	16.00	140.00
300 18 to 24 ins.	2.60	22.00	200.00
500 2 to 3 ft.	3.50	30.00	270.00

Opulus Sterile	Per	Per	Per
(Common Snowball)	10	100	1000
700 12 to 18 ins.	3.20	28.00	250.00

WEIGELA (Diervilla)	Per	Per	Per
Eva Rathke (Red-flowering Weigela)	10	100	1000
1500 12 to 18 ins.	3.30	28.00	250.00
Rosea (Pink Weigela)	1000	1700	750
400 12 to 18 ins.	1.90	16.00	140.00
750 18 to 24 ins.	2.60	22.00	200.00
700 2 to 3 ft.	3.50	30.00	270.00
400 3 to 4 ft.	4.50	40.00	350.00

HENDERSONI	Per	Per	Per
1000 18 to 24 ins.	2.50	22.00	200.00
1200 2 to 3 ft.	3.50	30.00	270.00

CLIMBING VINES

AMPELOPSIS	Per	Per	Per
Engelmanni (Engelmann Creeper)	10	100	1000
250 2-year, No. 1	\$2.40	\$20.00	\$180.00
1000 2-year, medium	1.90	16.00	140.00

Velut (Tricuspidata)	Per	Per	Per
4000 2-year, No. 1	2.60	22.00	200.00
3500 2-year, medium	2.10	18.00	160.00

BIGNONIA	Per	Per	Per
Radicans (Trumpet Creeper)	10	100	1000
2000 2-year, medium	2.10	18.00	160.00

CELASTRUS	Per	Per	Per
Scandens (American Bittersweet)	10	100	1000
750 2-year, No. 1	2.90	25.00	220.00
750 2-year, medium	2.10	18.00	160.00

HONEYSUCKLE	Per	Per	Per
(Lonicera)	10	100	1000
Scarlet Trumpet (Sempervirens)	1000	1700	750
3000 2-year, No. 1	2.90	25.00	220.00
4000 2-year, medium	2.40	20.00	180.00

POLYGONUM Aubertii	Per	Per	Per
(Silver-lace Vine; Chinese Fleece Vine)	10	100	1000
1500 2-year, No. 1	3.50	30.00	270.00

See Page 15 for Fruit Tree Ad.

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SPECIMEN EVERGREENS SMALL LANDSCAPE SIZES and HEAVY LINERS

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We need the room for new seed beds. Special prices to one or two buyers who can use all the stock, B&B themselves and remove it from the nursery with own truck. Stock has been transplanted, mostly two and three times; good root system, healthy certified material, northern-grown.

We offer our usual high-grade Transplants and Seedlings in the following stock:

TRANSPLANTS	Per 100	Per 1000
American Red Pine, 3-2-2, 18 to 36 ins.	\$35.00	....
Colorado Blue Spruce, 5-1, 3 to 6 ins.	7.50	\$65.00
Norway Spruce, 3-1, 3 to 7 ins.	6.50	60.00
White Spruce, 4-1, 3 to 6 ins.	6.00	50.00
Black Hills Spruce, 4-1, 4 to 7 ins.	10.00	....
Black Hills Spruce, 2-3-1, 8 to 12 ins.	18.00	....
Black Spruce, 2-2, 4 to 8 ins.	10.00	....
Balsam Fir, 2-3-1, 4 to 10 ins.	15.00	....
American Arborvitae, 2-2-1, 4 to 12 ins.	15.00	....
Can. Hemlock, once transplanted, 6 to 12 ins.	15.00	100.00
Red Spruce, 3-3-2, 6 to 18 ins.	10.00	85.00
Oriental Bittersweet, 6-2, 30 to 36 ins.	25.00

Write for prices on seedlings.

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Phone: Princeton 1776

LINING-OUT STOCK

	Per 100
Acer palmatum atrop., 2-yr. transplants.	\$ 30.00
Ampelopsis veitchii, 1-yr. seedlings, No. 1.	2.50
Ampelopsis veitchii, 1-yr. seedlings, No. 2.	1.50
Azalea Altaculacense, T, 2-yr. bedded, 6 to 10 ins.	25.00
Azalea Babouf, T, 2-yr. bedded, 6 to 10 ins.	25.00
Berberis thunbergii, 1-yr. seedlings, 6 to 10 ins.	2.00
Berberis thunbergii, 1-yr. seedlings, 4 to 6 ins.	1.50
Berberis thun. atrop., 1-yr. seedlings, 6 to 10 ins.	3.00
Cydonia japonica, 1-yr. seedlings, 8 to 12 ins.	2.50
Lonicera halimiana, T, 2-yr. cuttings, No. 1.	3.00
Ligustrum ovalifolium, 1-yr. cuttings, 15 to 24 ins.	3.00
Magnolia soulangeana, T, 2-yr. bedded, 18 to 30 ins.	125.00
Picea excelsa, T, 2-yr. bedded, 6 to 10 ins.	10.00
Rhododendron hybrid, seedlings, T, 2-yr. bedded, 6 to 10 ins.	25.00
Taxus hatfieldi, T, 2-yr. bedded, 8 to 15 ins.	32.50
Taxus cuspidata, spreaders, T, 2-yr. bedded, 8 to 15 ins.	32.50

THE RHODE ISLAND NURSERIES

Newport, R. I.

clean of leaves. As a result, the soil is nearly always low in fertility and lacking in moisture, unless the situation is a naturally moist one. For these reasons it is necessary to provide nourishment in liberal quantity and to attend to the plants' needs for moisture in dry weather.

The following brief list of plants is suggested for shady situations: Sweet woodruff, *Asperula odorata*; hepatica, *Corydalis lutea*, *Geranium sanguineum*, forget-me-not, primrose, *polemonium* in variety, *Phlox divaricata* and *viola* in variety. These create a long season of bloom and are more or less self-supporting.

Primulas from Seeds.

A grower who, because of his present schedule, must do most of his seed sowing in June wonders how he can handle primula seeds. Excepting some of the European alpine species, which are generally too difficult for the average gardener, anyway, I suspect that he will have just as good success from June sowing as he would from the orthodox method of freezing his seed pans, or perhaps more. In fact, when I was growing the Asiatic species in large quantities, I usually handled them in the following fashion: Give the pan a good layer of drainage and over that a layer of sphagnum thick enough to keep the drainage clear. Then fill the pan with a light compost, preferably, for my own case, composed of three-fourths garden soil and one-fourth leaf mold, and sow the seeds on top of this dry soil. The pans are allowed to stand in water until the soil is thoroughly soaked when they are covered with paper and placed on the cellar floor until germination takes place, which is usually from two to six weeks, when working with the species indicated. Watering is done in the same way until the seedlings are ready to be transplanted. That will vary with one's location. In this section of heavy snow from late fall to spring, we can safely transplant to frames in autumn, knowing that the small plants will seldom heave. In most sections it would be wiser, no doubt, to leave the seedlings in the pans until spring, wintering them in a well banked frame.

Aphyllanthes Monspelensis.

A correspondent who came into possession of *Aphyllanthes monspeliensis* three or four years ago and has fallen in love with it chides me because the plant never appears in these notes. If he were an old reader he would remember an enthusiastic report of the plant several years ago,

[Concluded on page 56.]

BUNTINGS' NURSERIES, INC., Box 3 Selbyville, Del.

Place your order now for shipment when wanted. All stock listed here can be shipped promptly upon receipt of order. Liberally graded, true to name, best quality stock—offered at attractive prices.

YEARLING PEACH TREES

	Each	Per 10	Per 100
1-in. and up, heavily branched.....	\$1.00	\$8.50	\$75.00
7/8 to 1-in., 6 to 7 ft.....	.85	7.00	60.00
11/16 to 7/8-in., 5 to 6 ft.....	.75	6.00	50.00
9/16 to 11/16-in., 4 to 5 ft.....	.65	5.00	40.00
7/16 to 9/16-in., 3 to 4 ft.....	.55	4.00	30.00
5/16 to 7/16-in., 2 to 3 ft.....	.45	3.00	20.00
1/4 to 5/16-in., 2 to 3 ft.....	.40	2.50	15.00
Belle of Georgia	Golden Jubilee	Rochester	
Brackett	Greensboro	Shipper's Late	
Carman	Halehaven	Sunhigh	
Crawford's Early	Heath Cling	Summercrest	
Crawford's Late	J. H. Hale	Triogem	
Early Elberta	O'Boy	Valiant	
Elberta	Red Bird Cling	Vedette	
Gage Elberta	Redhaven	White Hale	
Goldeneast			

APPLE TREES

	2-year Buds	Each	Per 10	Per 100
1-in. and up, heavily branched.....		\$1.05	\$9.00	\$80.00
7/8 to 1-in., 6 to 7 ft.....		.90	7.50	65.00
11/16 to 7/8-in., 5 to 6 ft.....		.75	6.00	50.00
9/16 to 11/16-in., 4 to 5 ft.....		.65	5.00	40.00
7/16 to 9/16-in., 3 to 4 ft.....		.50	3.80	28.00
5/16 to 7/16-in., 2 to 3 ft.....		.45	3.20	22.00
Anoka	Jonathan	R. I. Greening		
Baldwin	Jonathan, Dbl. Red	Stayman		
Delicious	Lodi	Stayman, Dbl. Red		
Delicious, Dbl. Red	McIntosh	Williams Early Red		
Gravenstein, Red	McIntosh, Dbl. Red	Yellow Delicious		
Grimes Golden	Red Spy	Yellow Transparent		
Hyslop Crab	Rome Beauty	York Imperial		

PEAR TREES

	2-year Buds	Each	Per 10	Per 100
11/16-in. and up, 5 to 6 ft.....		\$1.15	\$10.00	\$90.00
9/16 to 11/16-in., 4 to 5 ft.....		1.00	8.50	75.00
7/16 to 9/16-in., 3 to 4 ft.....		.85	7.00	60.00
Bartlett	Duchess			
Cayuga	Kieffer			
Clapp Favorite	Seckel			

PLUM TREES

	Each	Per 10	Per 100
11/16-in. and up, 5 to 6 ft.....	\$1.15	\$10.00	\$90.00
9/16 to 11/16-in., 4 to 5 ft.....	1.00	8.50	75.00
7/16 to 9/16-in., 3 to 4 ft.....	.85	7.00	60.00
5/16 to 7/16-in., 2 to 3 ft.....	.75	6.00	50.00
Abundance	Stanley		
Burbank	Shropshire Damson		
Fellenberg	Red June		

SOUR CHERRY

	Each	Per 10	Per 100
11/16-in. and up.....	\$1.25	\$11.00	\$100.00
9/16 to 11/16-in.....	1.15	10.00	90.00
7/16 to 9/16-in.....	1.00	8.50	75.00
5/16 to 7/16-in.....	.90	7.50	65.00
Montmorency	Early Richmond		
May Duke	English Morello		

SWEET CHERRY

	Each	Per 10	Per 100
9/16 to 11/16-in., 4 to 5 ft.....	\$1.25	\$11.00	\$100.00
7/16 to 9/16-in., 3 to 4 ft.....	1.10	9.50	85.00
5/16 to 7/16-in., 2 to 3 ft.....	.95	8.00	70.00
Black Tartarian	Napoleon		
Governor Wood	Schmidt's Big		
Lambert	Yellow Spanish		

GRAPEVINES

Our Grapes have heavy fibrous root systems, with many lengthy canes at the top. Write for prices on large numbers.

	Each	Per 10	Per 100	Per 1000
CONCORD (blue), CATAWBA (mahogany), NIAGARA (white):				
2-yr., No. 1 grade.....	\$0.25	\$1.75	\$12.00	\$90.00
1-yr., No. 1 grade.....	.20	1.50	9.00	75.00
AGAWAM (red), FREDONIA (black), MOORE'S DIAMOND (white), WORDEN (black):				
2-yr., No. 1 grade.....	.25	2.00	15.00	110.00
1-yr., No. 1 grade.....	.20	1.75	12.00	100.00
CACO (red), CHAMPAGNE (amber), DELAWARE (red), PORTLAND (white):				
2-yr., No. 1 grade.....	.30	2.25	18.00	140.00
1-yr., No. 1 grade.....	.25	2.00	14.00	120.00

ASPARAGUS ROOTS

Our Asparagus roots have made a very good growth this season. We are the largest growers of Asparagus in the country. Write for special prices on large numbers.

Varieties: MARY WASHINGTON, PARADISE

	Per 25	Per 100	Per 250	Per 1000
3-yr., heavy No. 1 grade.....	\$1.25	\$4.00	\$8.25	\$28.00
2-yr., heavy No. 1 grade.....	.75	2.50	4.75	16.00
1-yr., heavy No. 1 grade.....	.60	2.00	3.50	10.00

RHUBARB ROOTS

Varieties: VICTORIA, MYATT'S LINNAEUS

	Per 25	Per 100	Per 250	Per 1000
2-in. cal. and up, forcing grade.....	\$2.75	\$9.50	\$22.50	\$85.00
1 1/2 to 2-in. cal.....	2.00	6.50	15.00	55.00
1 to 1 1/2-in. cal.....	1.50	4.50	10.00	35.00
3/4 to 1-in. cal.....	1.25	3.50	7.50	25.00
1/2 to 3/4-in. cal.....	1.00	2.50	5.00	16.00

BERRY PLANTS, No. 1 grade

	Per 10	Per 25	Per 100	Per 1000
Thorny Boysenberry.....	\$1.00	\$2.00	\$6.00	\$40.00
Thornless Boysenberry.....	1.00	2.00	7.00	50.00
Lucretia Dewberry.....	.60	1.25	4.00	30.00
Cumberland Raspberry.....	1.00	2.00	6.00	45.00
Indian Summer Raspberry.....	1.00	2.00	7.00	60.00
Latham Raspberry.....	1.00	2.00	6.00	50.00
St. Regis Raspberry.....	1.00	2.00	6.00	50.00
Sunrise Raspberry.....	1.00	2.00	7.00	60.00
Blowers Blackberry.....	1.00	2.00	6.00	40.00
Eldorado Blackberry.....	1.00	2.00	6.00	40.00

PRIVET HEDGE PLANTS

Our soil and climatic conditions are ideal for the production of good Privet, and we guarantee our stock to be as well grown and developed in grade as any in this country. Write for special prices on large numbers.

CALIFORNIA PRIVET

(Ligustrum ovalifolium)	Per 10	Per 100	Per 1000
1 1/2 to 2 ft., 3 canes or more.....	\$0.85	\$ 7.00	\$ 60.00
2 to 3 ft., 4 canes or more.....	1.00	8.50	75.00
3 to 4 ft., 6 canes or more.....	1.50	12.50	110.00

IBOLIUM PRIVET (Ligustrum ibolium)

Can be furnished in exact grades and prices as California Privet listed above.

AMUR RIVER NORTH PRIVET

(Ligustrum amurense)	Per 10	Per 100	Per 1000
1 1/2 to 2 ft., 3 canes or more.....	1.00	8.50	75.00
2 to 3 ft., 4 canes or more.....	1.40	12.00	105.00
3 to 4 ft., 6 canes or more.....	1.80	16.00	145.00

FREE PACKING FOR CASH WITH ORDER. Our Spring, 1948, Wholesale List offers a complete line of nursery stock. If you did not receive a copy, write us today. When requesting wholesale rates, kindly use your printed stationery. If interested in large lots, kindly submit your list of requirements for special consideration.

Mail Order Meeting

Fifty nurserymen, representing twenty-seven mail-order firms of the central region of the National Mail Order Nurserymen's Association, met the evening of February 20 at Calvin's grille, New Buffalo, Mich., and heard reports on the mail-order nursery business as compared with previous years.

The severely cold weather during January and February slowed the flow of mail orders, but Clarence Wesdorp, Krider Nurseries, Inc., Middlebury, Ind., said that despite these discouraging circumstances the nurserymen feel better now, "Not that business has improved so much, but we have got used to it."

Walter Montfort, Cutler & Downing Co., Benton Harbor, Mich., said that the demand for small fruits was equal to that of last year, but that there was not much sale of tree fruits to local orchardists.

Jens Ihrke, D. Hill Nursery Co., Dundee, Ill., reported that he had called on many nurserymen and found prospects indicated that the sale of ornamental stock would hold good for at least four or five years. He expects balled and burlapped evergreens to be more scarce in 1949 and 1950 than in 1948, because all nurserymen seem determined to dispose of their biggest evergreens this year.

A. W. Krieger, Krieger's Wholesale Nursery, Bridgman, Mich., stated, "If you are in big business, you play for big stakes, and business is bad; we are in small business, play for small stakes, and business is good."

John M. Elzinga, John M. Elzinga Bulb Farms, Benton Harbor, Mich., who had just returned from a buying trip to Mokena, Ill., reported that he found gladiolus growers holding out for high prices and storage houses were full of corms.

Howard Kyle, Spring Hill Nursery, Tipp City, O., stated that his firm had sent out its catalogs earlier than last year, that inquiries were off fifty per cent from last year, but that the dollar volume of business booked is up.

B. F. Kindig, Kindig Nursery, Elkhart, Ind., reported that business was behind that of 1947 but ahead of 1946 and added that inquiries came in much better immediately following three warm days.

Henry Weller, Weller Nurseries Co., Holland, Mich., said that he had been too optimistic in his remarks at the Kalamazoo meeting because

orders were off markedly for fourteen days thereafter. He declared that he had been receiving catalogs and price lists from firms and individuals he never knew existed before.

Darrell Emlong, Emlong Nurseries, Inc., Stevensville, Mich., reported that Emlong's business was four and one-half per cent behind last year.

B. W. Keith, Keith Plant Nursery, Sawyer, Mich., is looking forward to the second week in April, since that is the week when orders have formerly reached their peak at his firm.

Victor Judson, Judson Wholesale Nurseries, Bristol, Ind., had acquired a good tan in Florida, where he had spent a 2-week vacation, while Arthur L. Watson, Arthur L. Watson Nurseries, Grand Rapids, Mich., had just returned from North Carolina, where he had seen snowbanks eighteen inches deep.

Gerald Baldwin, O. A. D. Baldwin Nursery, Bridgman, Mich., reported that the three warm days during the previous week had made little difference in his orders and inquiries.

Rex Westhauser, Westhauser Nurseries, Sawyer, Mich., had checked his orders and found that they were twelve per cent ahead of last year's and averaged, individually, \$2.07 more than last year. He had

enclosed cards with some of the catalogs and had asked the addressee to return the card. An average time of ten days is required between the time the catalog is mailed and the time the card is returned.

Letters read from mail-order nurserymen in other regions and near by showed a similar lapse from the high volume of business recorded in 1947.

Kimball Andrews, Andrews Nursery Co., Faribault, Minn., reported that business to distributors was five per cent below last year's and that inquiries for catalogs have been off ten per cent.

According to Wayne Ferris, Earl Ferris Nursery, Hampton, Ia., inquiries are down twenty-five per cent from last year and business is off twenty per cent from last year.

M. Vaughn Woodward, Neosho Nurseries Co., Neosho, Mo., also stated that orders are off twenty per cent this year as compared with last year.

Howard Maloney, Maloney Bros. Nursery Co., Dansville, N. Y., wrote

Send at once for new Price List of finest-quality plants at reasonable prices for winter or early spring shipment.

- AZALEAS
- BROAD-LEAVED EVERGREENS
- IRISH JUNIPERS
- PFITZER JUNIPERS
- GLOBE ARBORVITAE
- HARDY SHRUBS and TREES
- FLOWERING TREES
- APPLE and PEAR SEEDLINGS
- GRAPEVINES
- ROSES
- CAMOUFLAGE NETTING (for shading)

TANKARD NURSERIES
Exmore, Va.

On the famous Eastern Shore.
Member A.A.N.

ACER PLATANOIDES NORWAY MAPLES

Look!

Look!

	Per 100
5 to 6 ft., trans.	\$20.00
6 to 8 ft., trans.	30.00
6 to 8 ft., ¾ to 1-in. cal.	60.00
10 to 12 ft., 1 to 1½-in. cal.	75.00
12 to 14 ft., 1½ to 1¾-in. cal., well branched.	150.00
14 to 16 ft., 1½ to 1¾-in. cal., well branched.	200.00
16 to 18 ft., 1¾ to 2-in. cal., well branched.	225.00
2 to 2½-in. cal.	\$3.00 each

Additional charge of 10% will be added for balling and shipping. No charge will be made for loading bulk trucks.

When C.O.D. shipment is desired, a cash deposit of 25% must accompany order.

STATE ROAD NURSERY
State and Sproul Rds.
Route 1, Media, Pa.

LANDSCAPE MATERIAL

for Spring, 1948

Best assortment in Hyb. Rhododendrons, Red Maples, Magnolias, Taxus, Evergreens, Shrubs, etc.

Write for list.

Jap. Beetle Zone only. No shipping.

DEERFIELD NURSERIES
DEERFIELD ST. P. O., N. J.

LINING-OUT STOCK OUR SPECIALTY....

Shade Tree Whips . . . a timely finished product saving 2 to 4 yrs.' growing effort . . . excellent variety.

A very complete line of ORNAMENTAL TREES, SHRUBS and EVERGREEN SHRUBS, including many scarce items.

THOMAS B. MEEHAN CO.
DRESHER, PA.

WHOLESALE TRADE LIST

Spring 1948

WHOLESALE ONLY

To the trade we offer the following varieties of Small Fruit Plants and Vegetable Roots for delivery any time until the end of the season, which is about June 1. All prices are F.O.B. Bridgman, Michigan, boxing at cost. 250 at 1000 rate unless otherwise stated. Prices subject to change without notice.

GRAPEVINES	100	250
	25 to 100	to 250 and up
	Each	Each

Concord (Blue), 2-1	\$0.10	\$0.09	\$0.08 1/2
Concord (Blue), 1-1	.08	.07	.06 1/2
Fredonia (Early Black), Niagara (White), Catawba (Red), 2-1	.12	.11	.10 1/2
1-1	.09	.08	.07 1/2
Delaware (Red), 2-1	.14	.13	.12 1/2
Delaware (Red) 1-1	.11	.10	.09 1/2
Van Buren (Early Black)			35c each

GOOSEBERRY

Downing, 2-yr., No. 1	Each	\$0.30
Houghton, 2-yr., No. 1		.25
Champion, 2-yr., No. 1		.25

CURRENTS

	25 to 100	100 to 250
	Each	Each
Wilder, heavy, 4-yr.	\$0.20	\$0.19
Wilder, 2-1	.15	.14
Wilder, 1-1	.11	.10

RED RASPBERRIES

	1-yr., No. 1	3/16-in. to 1/4-in.
	100	1000
Latham	\$6.00	\$50.00
Indian Summer	6.50	55.00
Chief	5.00	45.00
St. Regis	5.00	45.00
All transplants of above add 1 1/2 cents each.		

VEGETABLE ROOTS

VICTORIA RHUBARB-

Whole Roots	100 to 250	250 to 1000	1000 to 5000
	Per 100	Per 100	Per 1000
1 1/2-in. and up	\$8.00	\$7.50	\$70.00
1 to 1 1/2-in.	6.00	5.50	50.00
3/4 to 1-in.	5.00	4.50	40.00
1/2 to 3/4-in.	4.00	3.50	30.00

Liners

3/8 to 1/2-in.	15.00
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RED RHUBARB DIVISIONS

	Each	Per 100
Canada Red, No. 1 Divisions	\$0.40	\$0.35
MacDonald	.30	.25

Wire or telephone Bridgman 22

TERMS: 2 per cent discount for payment upon receipt of stock to parties with established credit; or 10 days net. Orders amounting to less than \$5.00, cash with order. C.O.D. orders must be accompanied with 1/3 cash deposit.

BLACK RASPBERRIES

	No. 1 Tips	100	1000
Cumberland and Logan	\$4.50		\$35.00
Morrison (Sold out)			

PURPLE RASPBERRIES

	No. 1 Tips	100	1000
Sodus	\$6.00		\$50.00

BLACKBERRIES

	No. 1 R.C.	100	1000
Eldorado and Alfred, 1-yr., No. 1	\$4.50		\$35.00
No. 1 Transplants, 2-yr. trans.	6.00		50.00

LUCRETIA DEWBERRY

	100	1000
No. 1 tips	\$4.50	\$35.00

BOYSENBERRY

	No. 1 Tips	100	1000
Common and Thornless	\$6.50		\$55.00

BLUEBERRIES

Rubel, Rancocas, Jersey, Adams.

	Cabot, Concord.	Each
1-yr., 3 to 6 ins.		\$0.25
2-yr., 6 to 12 ins.		.50
3-yr., 12 to 18 ins.		.70
4-yr., 18 to 24 ins.		1.00

STRAWBERRIES

Prices upon request.

ASPARAGUS

	25 to 100	100 to 250	250 to 1000
	Per 100	Per 100	Per 1000
Paradise and Washington			
3-yr., heavy	\$4.00	\$3.50	\$30.00
2-yr.	2.80	2.30	18.00
1-yr.	2.20	1.70	12.00

Quantity price upon request.

HORSE-RADISH

	25 to 100	100 to 250	250 to 1000
	Each	Per 100	Per 1000
Cuttings, 4 to 5-in.	\$0.02	\$1.75	\$15.00
Whole Roots	.04 1/2	4.00	35.00

ASK FOR SPECIAL QUOTATIONS ON QUANTITY

KRIEGER'S WHOLESALE NURSERY, Bridgman, Michigan

SURPLUS STOCK IN STORAGE OFFERED FOR SPRING

Write us for quotations.

APPLES, STD., 2-yr. and 1-yr.

11/16-in., 9/16-in., 7/16-in., 2-yr.
3 1/2 ft. and up, 3 to 3 1/2 ft., 2 to 3 ft.,
1-yr.
Baldwin Northern Spy
Dbl. Red Delicious R. Northern Spy
Doigo Crab Webster
Ea. McIntosh Yellow Delicious
Medina Yellow Transparent
Solid Red McIntosh R. I. Greening
Cortland

PEARS, STD., 2-yr. and 1-yr.

11/16-in., 9/16-in., 7/16-in., 2-yr.
3 1/2 ft. and up, 3 to 3 1/2 ft., 2 to 3 ft.,
1-yr.
Bartlett Sheldon
Beurre de Bosc Seedless
Clapp Favorite Willard
Flemish Douglas
Seckel

PEACHES, 1-yr.

11/16-in., 9/16-in., 7/16-in., 5/16-in.
Belle of Georgia Elberta
Carman Golden Jubilee
Crawford, Early Halcabon
Crawford, Late

CHERRIES, SWEET

2-yr. and 1-yr.

11/16-in., 9/16-in., 7/16-in., 2-yr.
3 1/2 ft. and up, 3 to 3 1/2 ft., 2 1/2 to 3 ft.,
2 to 2 1/2 ft., 18 to 24 ins., 1-yr.
Blag Napoleon
Bik. Tartarian Sweet September
Lambert Windsor

CHERRIES, SOUR

2-yr. and 1-yr.

11/16-in., 9/16-in., 7/16-in., 2-yr.
33 ins. and up, 24 to 30 ins., 18 to 24 ins.,
15 to 18 ins., 1-yr.
Early Richmond Montmorency
English Morello

PLUMS ON PLUM ROOT

2-yr. and 1-yr.

11/16-in., 9/16-in., 7/16-in., 2-yr.
3 to 4 ft., 3 ft. and up, 33 ins., 2 to 3 ft.,
1-yr.
Abundance Monarch
Bradshaw Reine Claude
Fellenberg Shropshire Damsen
German Prune Stanley
Hall Yellow Egg
Lombard

DWARF PEARS

2-yr. and 1-yr.

1/2-in., 3/4-in., 2-yr.
3/4-in., 1/2-in., 1-yr.
Douglas Bartlett
Seckel Clapp Favorite

SHRUBS, 2 yrs. old

2 to 3 ft. and 18 to 24 ins.
Cornus flavrumea Honeyuckle g.
Cornus stolonifera rosea
Deutzia P. of Purple Lilac
Rochester Stephanandra
Euonymus europaeus Symp. racemosa
Forsythia fortunei Vib. opulus

MALONEY BROS. NURSERY CO., Inc.

DANSVILLE, NEW YORK

SPECIMEN EVERGREENS

In Landscape Sizes

	In lots of	
	5 to 24	Over 25
Juniperus chinensis pfitzeriana, 24 to 30 ins.	\$3.00	\$2.75
Juniperus chinensis pfitzeriana, 30 to 36 ins.	3.75	3.50
Taxus cuspidata, 36 to 42 ins.	7.50	...
Taxus media hicksii, 15 to 18 ins.	2.50	2.25
Taxus media hicksii, 18 to 24 ins.	3.30	3.00
Taxus media hicksii, 24 to 30 ins.	4.40	4.00

All stock is exceptionally heavy. We are not in the Japanese Beetle Zone, and stock is absolutely clean. Your inspection welcomed.

THORNTON NURSERIES

Route 18, East Side

Conneaut Lake, Pa.

LINERS

Taxus capitata, Taxus cuspidata, Taxus intermedia, Thuja pyramidalis, Thuja boothii, Thuja elegantissima and other select varieties.

Write for prices.

Leghorn's Evergreen Nurseries
Geer St. Cromwell, Conn.

QUALITY LINERS

- Pieris Japonica
- Taxus (best varieties)
- Blue Andorra Juniper
- Ilex (in variety)
- Azaleas (good variety)
- Pyramidal Arborvitae
- Leucothoe

Send for complete list.

POSSUM HOLLOW NURSERIES

6327 Magnolia St.
PHILADELPHIA 44, PA.

that as of February 16 business was twenty per cent ahead of last year.

Homer Kemp, Bountiful Ridge Nurseries, Princess Anne, Md., reported that inquiries from advertising are materially less than last year and, in some cases, inquiries are costing as much as 60 cents per name.

J. W. Jung, Jung Seed Co., Randolph, Wis., reported that inquiries are not up to those in former years.

Leonard Condon, Condon Bros. Seedsmen, Rockford, Ill., wrote that business is off twenty-five per cent.

Howard N. Scarff, W. N. Scarff's Sons, New Carlisle, O., sent a memorandum that both business and inquiries are off from thirty to thirty-five per cent as compared to last year.

John W. Kelly, Kelly Bros. Nurseries, Dansville, N. Y., reported inquiries are ahead of last year but that it cost more money to solicit the inquiries and that catalogs cost more.

George Rose, Henry Field Seed & Nursery Co., Shenandoah, Ia., told of inquiries being from fifteen to thirty per cent less than last year, depending upon the days, and business being down twenty-two per cent from 1947.

In a remarkably concise and frank address, Roger Parks, Railway Express Agency, Inc., told the nurserymen that railway express receipts, also, were off twenty per cent from last year. He did not blame the cold weather, but attributed this to the two rate increases that have been put into effect recently, making three increases in little more than a year, which, he explained, had lost some express business to parcel post.

Mr. Parks explained that the Railway Express Agency, Inc., assembles its costs at each shipping point and then determines the cost per shipment. In 1940, the costs were 17 cents per shipment; in 1947 costs had increased to 36 cents per shipment, and in January, 1948, costs had gone up to 46 cents per shipment.

He explained that the firm's rates are set and that employees' wages are raised by outside forces; hence it happened that the two raises in wages in 1947 occurred before the raise in express rates.

Nursery stock travels as second-class express with a local minimum charge of 75 cents and a transportation tax of three per cent.

C. A. Boyer, chief of the bureau of plant industry, Lansing, Mich., reported the results of an extensive survey of the nursery business in 1946 in Michigan, which he conducted. With replies from sixty-nine per cent of the total number contacted, the summary presents huge figures: In 1946, \$37,000,000 worth

Zephyr

HILL NURSERIES AGAIN BRING YOU A FINE FULL STOCK OF EVERGREENS AT AMAZINGLY LOW PRICES!

Austrian Pine, 4 to 5 ft.	\$2.25
Black Hills Spruce, 2 to 3 ft.	1.95
Boxwood, 15 to 18 ins.	.80
Burk Juniper, 3 to 4 ft.	2.90
Burk Juniper, 4 to 5 ft.	3.90
Canaert Juniper, 3 to 4 ft.	3.40
Canaert Juniper, 4 to 5 ft.	3.90
Columnaris Glauca Jun., 3 to 4 ft.	3.50
Columnaris Glauca Jun., 4 to 5 ft.	3.90
Globe Juniper, 18 to 24 ins.	1.75

Hemlock, 3 to 4 ft.	\$3.50
Hill Juniper, 3 to 4 ft.	2.50
Hill Juniper, 4 to 5 ft.	3.50
Irish Juniper, 3 to 4 ft.	1.75
Irish Juniper, 4 to 5 ft.	2.50
Juniperus Japonica, 18 to 24 ins.	2.40
Meyer Juniper, 18 to 24 ins.	2.25
Mugho Pine, 18 to 24 ins.	2.00
Mugho Pine, 24 to 30 ins.	2.25
Pfitzer Juniper, 2 to 3 ft.	2.90
Pfitzer Juniper, 3 to 4 ft.	3.40

Pyramidal Juniper, 2 to 3 ft.	\$1.75
Pyramidal Juniper, 3 to 4 ft.	3.00
Pyramidal Jun. (heavy specimens), 4 to 5 ft.	4.25
Scotch Pine, 4 to 5 ft.	2.25
Stricta Juniper, 18 to 24 ins.	1.80
Stricta Juniper, 24 to 30 ins.	2.75
Stricta Juniper, 30 to 36 ins.	3.40
Virginiana Glauca Jun., 4 to 5 ft.	3.50
Von Ehron Juniper, 3 to 4 ft.	2.85

This splendid list of specimen Evergreens results from heavy plantings during war years. All stock is well sheared and in excellent condition. Propagating and growing our own nursery stock, under rigid economy, enable us to offer these low prices with a handsome profit opportunity for you.

Prices are for first-grade stock. Other grades available as well as other Evergreens and Shrubs. We suggest that you see stock at nursery and arrange for shipping. Prices are cash, and for stock in the field; digging approximately 15% additional.

Zephyr

HILL NURSERIES SPRINGFIELD, OHIO

One Mile
South of City on
State Route 68
Phone 3-8889
Richard B. Schmidt

of nursery products were sold, \$25,000,000 worth of gladioli, and the fruit industry did a \$60,000,000 business. He compared this to the 1947 statistics, which showed a total of \$697,000,000 for all business in the entire state.

Mr. Boyer stated that the spread of nursery stock diseases in Michigan does not disturb him, but that the national picture is not reassuring, especially with regard to bulbs.

Michigan inspectors, according to Mr. Boyer, are finding red stele on strawberry plant shipments coming into the state, which means condemnation and destruction.

He told of inspecting two carloads of roses that had come into the state the past week. Out of 25,000 roses for which the consignees had paid a \$353 freight charge on each car, over 9,000 rosebushes were afflicted with crown gall.

He also reported that inspectors have found Mazzard cherry seeds carrying stone fruit virus diseases.

At the conclusion of the meeting, the secretary was instructed to extend the condolences of the association to Hugh Wolfe and his mother, Mrs. Ross Wolfe, as a result of the untimely death February 7 of Ross Wolfe, Wolfe's Nursery, Stephenville, Tex.

LINING-OUT STOCK.

Place your order now and avoid disappointment later. We are not increasing our production. If you did not receive our list, a copy will be mailed on request.

HESS' NURSERIES
P. O. Box 52,
Mountain View, N. J.

LINING-OUT BERBERIS THUNBERGI

Grade	1-year seedlings	Per 1000	Per 10,000
2 to 6 ins.		\$15.00	\$135.00
6 to 9 ins.		20.00	180.00
9 to 12 ins.		25.00	225.00

WILSON'S NURSERIES
MANCHESTER, CONN.

	Per 1000
3000 Taxus Cuspidata, R. C.	\$ 85.00
2500 Juniperus Hetzi, R. C.	125.00
1000 Juniperus Hetzi, T, 4 to 6 ins.	175.00
2000 Taxus Cuspidata, T, 4 to 6 ins.	150.00
1500 Taxus Andersoni, T, 6 to 10 ins.	250.00
1000 Irish Juniper, T, 3 to 6 ins.	125.00
1000 Thuja Occ. Ellwangeriana, TT, 6 to 10 ins.	275.00
Each	
White Dogwood, 6 to 8 ft.	\$4.00
8 to 10 ft.	6.50
Mugho Pine, 12 to 15 ins.	1.50
15 to 18 ins.	2.00
18 to 24 ins.	2.50
Black Hills Spruce, 2 1/2 to 3 1/2 ft.	2.50
Retinospora Obtusa, 5 to 7 ft.	5.50
Retinospora Pisifera, 6 to 8 ft.	6.00
(Will sell lot of about 200 for \$4.00 each. You dig; good roots, easy to dig.)	
Colorado Green Spruce, 18 to 24 ins.	1.50
2 to 3 ft.	2.25
River Birch (Shrub form), 4 to 8 ft.	
Cash with order	
SHANER'S NURSERY	
Rt. 56, Leechburg Rd. New Kensington, Pa.	

DAPHNE CNEORUM

	(Rooted Divisions)
100 divisions	\$ 6.00
500 divisions	25.00
1000 divisions	50.00

EDEN NURSERIES
EDEN, N. Y.

LINERS

For immediate delivery.

Heavy stock, ready for field planting in 2 1/4-in. pots.
500 at 1000 rate.

	Per 100	Per 1000
Arborvitae, Elegantissima	\$20.00	\$175.00
Arborvitae, Dark American	20.00	175.00
Arborvitae, Globe	20.00	175.00
Arborvitae, Geo. Peabody	20.00	175.00
Berberis Juliana	17.50	150.00
Cotoneaster Francheti	20.00	175.00
Cotoneaster Repens	15.00	125.00
Ilex Cornuta Burfordi	25.00	200.00
Ilex Crenata Convexa	17.50	150.00
Juniperus Litoralis	20.00	175.00
Osmanthus Fortunei	17.50	150.00
Osmanthus Aquifolium	17.50	150.00
Pyracantha Gibbsi	17.50	150.00
Retinospora Plumosa	20.00	175.00
Retinospora Filifera	20.00	175.00
Elaeagnus Pungens	17.50	150.00
Taxus Cuspudata Capitata	17.50	150.00
Taxus Hicksi	17.50	150.00
Taxus Cuspudata	17.50	150.00

GRESHAM'S NURSERY

R. F. D. 9, BOX 82

RICHMOND, VA.

SMALL FRUIT PLANTS

Available for immediate shipment.

GRAPES

6000 Agawam, 1-yr., No. 1	6500 Ontario, 1-yr., No. 1
500 Brighton, 1-yr., No. 1	2000 Portland, 1-yr., No. 1
500 Caco, 1-yr., No. 1	1000 Mo. Reising, 1-yr., No. 1
300 Champagne, 1-yr., No. 1	900 Van Buren, 2-yr., No. 1
5000 Catawba, 1-yr., No. 1	600 Van Buren, 1-yr., No. 1
5000 Concord, 2-yr., No. 1	3000 Vervennes, 1-yr., No. 1
10,000 Concord, 1-yr., No. 1	300 Worden, 2-yr., No. 1
700 Concord, adigs., 1-yr., No. 1	1500 Worden, 1-yr., No. 1
700 Delaware, 2-yr., No. 1	
500 Diamond, 2-yr., No. 1	
5000 Diamond, 1-yr., No. 1	
2000 Duchess, 1-yr., No. 1	
4000 Elvira, 2-yr., No. 1	
2000 Elvira, 1-yr., No. 1	
1000 Fredonia, 2-yr., No. 1	
4000 Fredonia, 1-yr., No. 1	
800 Golden Muscat, 1-yr., No. 1	
600 Isabella, 1-yr., No. 1	
1000 Ives, 2-yr., No. 1	
1200 Lindley, 1-yr., No. 1	
500 Niagara, 2-yr., No. 1	
2000 Niagara, 1-yr., No. 1	

CURRANTS

450 Diploma, 2-yr., No. 1	1000 Red Lake, 2-yr., No. 1
750 Diploma, 1-yr., No. 1	200 Red Lake, 1-yr., No. 1
350 Red Cross, 2-yr., No. 1	600 White Grape, 2-yr., No. 1
850 Red Cross, 1-yr., No. 1	200 White Grape, 1-yr., No. 1
1000 Red Lake, 2-yr., No. 1	800 Wilder, 2-yr., No. 1
200 Red Lake, 1-yr., No. 1	5000 Wilder, 1-yr., No. 1
600 White Grape, 2-yr., No. 1	
200 White Grape, 1-yr., No. 1	
800 Wilder, 2-yr., No. 1	
5000 Wilder, 1-yr., No. 1	
1000 Spiraea V. H., 2 to 3 ft.	
500 Spiraea V. H., 3 to 4 ft.	

RASPBERRIES

20,000 Sodus, No. 1 tips, spring dug.
10,000 Cumberland, No. 1 tips, in storage.
30,000 Cumberland, No. 1 tips, spring dug.
15,000 Shuttlesworth, No. 1 tips, in storage.
50,000 Shuttlesworth, No. 1 tips, spring dug.

Also 1-yr., No. 2 and lining-out grade in most all varieties.

Write at once for prices.

FOSTER NURSERY CO., Inc.

Fredonia, N. Y.

BLUE SPRUCE LINERS

	Per 1000
2-yr. seedlings, 2 to 3 ins.	\$20.00
3-yr. seedlings, 2 to 5 ins.	30.00
	Per 100
4-yr. transplants, 4 to 6 ins.	\$20.00
5-yr. transplants, 6 to 12 ins.	30.00

We grow 14,000,000 seedlings and transplants per year.

Write for complete list.

MUSSER FORESTS, Inc., Indiana, Pa.

OBITUARY

O. J. Olson.

Olaf J. Olson, 74, secretary and cofounder of Holm & Olson, Inc., St. Paul, Minn., died March 1 after an illness of more than two months.

Born in Sweden, Mr. Olson came to this country when a young boy with his parents and settled on a Minnesota farm. In 1885, when only 11 years old, he went to work for Charles Bennett, St. Paul florist, and remained with him until 1892. Then he worked for the late E. F. Lemke, also of St. Paul, and three years later formed a partnership with E. P. Holm, establishing the firm of Holm & Olson, Inc. At the time of forming this partnership Mr. Olson, who maintained an active interest in philately all his life, sold a stamp collection in order to raise the necessary capital to help start the florists' business.

Today the firm includes, besides the retail store, greenhouses, a nursery and landscape department and a branch at Rochester, Minn. The nursery is called the Park Nurseries.

The firm is a member of the Minnesota State Nurserymen's Association and the American Association of Nurserymen. Mr. Olson was a life member of the Society of American Florists, of which he was once vice-president, and served on the executive boards of the Minnesota State Horticultural Society and the Minnesota State Florists' Association. He was a charter member of the St. Paul Rotary Club and belonged to various civic clubs.

Mr. Olson is survived by his widow, Mrs. Anna Olson; three sons, George H. and Eugene, both of St. Paul, and Warren, of Chicago; one daughter, Mrs. Conrad Wirth, daughter-in-law of Theodore Wirth, superintendent emeritus of the Minneapolis park board, Washington, D. C., and six grandchildren.

Ernest S. George.

Ernest S. George, 81, founder of the Graettinger Nursery, Graettinger, Ia., died of heart failure February 12 at his home at Graettinger, where he had been confined by illness for several months.

Known as "Ernie," Mr. George was born February 5, 1867, at Fairbank, Ia., the son of a pioneer family in Buchanan county. At the age of 10 he moved with his parents to Independence, Ia., where he was graduated from high school. He attended college at Upper Iowa University, Fayette.

SPRING LINING-OUT EVERGREENS

Heavy-rooted Transplants

Juniperus Bar Harbor	Per 100
150 8 to 10 ins., XX, fr.	\$25.00
150 10 to 12 ins., XX, fr.	27.50
100 12 to 15 ins., XX, fr.	30.00

Juniperus Chinensis Hetzi	
2000 4 to 6 ins., X, fr.	30.00
1000 6 to 8 ins., X, fr.	35.00
1000 8 to 10 ins., XX, fr.	45.00
500 10 to 12 ins., XX, fr.	55.00
500 12 to 15 ins., XX, fr.	65.00

Juniperus Chinensis Pfitzeriana	
2000 8 to 10 ins., X, 2-in. pots.	35.00
1500 4 to 6 ins., X, fr.	25.00
1500 6 to 8 ins., X, fr.	27.50
1000 8 to 10 ins., XX, fr.	32.50
2000 10 to 12 ins., XX, fr.	35.00
400 12 to 15 ins., XX, fr.	45.00

Juniperus Horizontalis Plumosa (Andorra)	
500 4 to 6 ins., X, fr.	15.00
1000 6 to 8 ins., X, fr.	17.50
700 8 to 10 ins., XX, fr.	20.00
2000 10 to 12 ins., XX, fr.	22.50
500 12 to 15 ins., XX, fr.	25.00
200 15 to 18 ins., XX, fr.	27.50

Juniperus Sabina Horizontalis (Prostrate Blue)	
100 6 to 8 ins., X, fr.	22.50
100 8 to 10 ins., XX, fr.	25.00

Juniperus Sabina Horizontalis (Glaue)	Per 100
500 6 to 8 ins., X, fr.	\$25.00
750 8 to 10 ins., XX, fr.	27.50
500 10 to 12 ins., XX, fr.	30.00
500 12 to 15 ins., XX, fr.	32.50
500 15 to 18 ins., XX, fr.	35.00

Picea Albertiana	
800 9 to 12 ins., XX, fr.	27.50
200 12 to 15 ins., XX, fr.	32.50

Picea Pungens Glaue	
800 9 to 12 ins., XX, fr.	40.00
400 12 to 15 ins., XX, fr.	50.00

Taxus Cuspidata	
500 4 to 6 ins., X, fr.	22.50
1000 6 to 8 ins., X, fr.	30.00
1000 8 to 10 ins., XX, fr.	40.00
200 10 to 12 ins., XX, fr.	50.00

Taxus Cuspidata Capitata	
200 4 to 6 ins., X, fr.	30.00
100 6 to 8 ins., X, fr.	40.00
100 8 to 10 ins., XX, fr.	50.00
100 10 to 12 ins., XX, fr.	60.00

Taxus Intermedia	
450 4 to 6 ins., X, fr.	35.00
450 6 to 8 ins., X, fr.	40.00

Taxus Media Hicksi	Per 100
500 4 to 6 ins., X, fr.	\$25.00
500 6 to 8 ins., X, fr.	35.00
500 8 to 10 ins., XX, fr.	40.00
300 10 to 12 ins., XX, fr.	50.00

Thuja Occidentalis Globosa	
500 4 to 6 ins., X, fr.	20.00
500 6 to 8 ins., X, fr.	22.50

TERMS: NET CASH WITH ORDER. PACKING FREE.

All stock is guaranteed to have well developed roots and be strong and healthy.

Orders will be filled in turn as received while our stocks last.

All orders are accepted upon the condition that they shall be void should any injury befall the stock from causes over which we have no control.

An order for 25 of the same variety and size sold at the 100 rate.

Minimum order 100 plants.

Orders for Pfitzer or Hetzi Junipers must include proportionate amounts of other items offered.

X—Once transplanted

XX—Twice transplanted

ELMHURST NURSERIES, Inc.

York and Roosevelt Rds.

Elmhurst, Ill.

EMIL H. MARTENS, Mgr.

TED W. SMITH, Pres.

With his brother Clarence, Mr. George settled at Graettinger in 1892 and helped to develop the town which grew from a small settlement to its present population of more than 1,000 persons. After establishing an implement company and the George Hardware Store with his brother, Mr. George started the Graettinger Nursery in 1903, which he operated until 1946, when he retired and sold the firm to his son-in-law and daughter, Mr. and Mrs. Philip Johnson. Mr. George was one of the first nurserymen in his locality to grow evergreens. He was interested in many community projects.

He married the former Edith Turneaure, of Milford, Ia., June 3, 1896, and they celebrated their golden wedding anniversary in 1946.

Besides his widow, he is survived by one son, Rolland Ernest, Phoenix, Ariz.; four daughters, Mrs. Philip Johnson, Graettinger; Mrs. E. C. Jackman, Estherville, Ia.; Mrs. R. M. McDowell, Warsaw, Ind., and Mrs. F. E. McDonald, Mason City, Ia.; seven grandchildren, and a brother, Clarence S., Grinnell, Ia.

HERBERT H. NICKE, formerly at 115 Clinton avenue, Mount Clemens, Mich., is now located at 145 Cass avenue, Mount Clemens.

CHINESE CHESTNUT TREES

SPECIALLY SELECTED STRAINS
HIGHLY BLIGHT-RESISTANT
SIMILAR TO OUR OLD
MOUNTAIN CHESTNUT

	Each	Each
	per 10	per 100
2 to 3 ft.	\$0.85	\$0.70
3 to 4 ft.	1.00	.90
4 to 5 ft.	1.25	1.10
5 to 6 ft.	1.65	1.50

These are nicely rooted, and larger sizes are well branched stock that will please your customers.

Order from this advertisement.

BOUNTIFUL RIDGE NURSERIES
Princess Anne, Md.

PRIVET and BERBERIS

Splendid Stock

Write for Special Quotations

LESTER C. LOVETT

MILFORD

DELAWARE

COLLECTED LINING-OUT STOCK

	Per 100	Per 1000
Thuja occidentalis		
6 to 12 ins.	\$ 4.00	\$30.00
12 to 18 ins.	6.00	50.00
Tsuga canadensis		
4 to 8 ins.	3.00	20.00
8 to 12 ins.	4.00	30.00
Tsuga canadensis, transp.		
4 to 8 ins., 2-yr.	8.00	...
8 to 12 ins., 2-yr.	15.00	...
12 to 18 ins.,		
2 times transp.	50.00	...
Betula papyrifera		
5 to 6 ft., stocky.	40.00	...
6 to 8 ft., stocky.	75.00	...
Ilex verticillata		
12 to 18 ins.	4.00	30.00
Viburnum cassinoides		
12 to 18 ins., sdgls.	5.00	40.00
Viburnum lentago		
12 to 18 ins., sdgls.	6.00	50.00
Zanthoxyla apiifolia		
12 to 18 ins.,		
rooted layers	5.00	...

Catalog listing Hardy Ferns, Native Perennials, and Lining-out Evergreens, Trees and Shrubs sent on request.

CHARLES H. WILLIAMS NURSERIES
BOX 223 EXETER, N. H.

BURR

Leading wholesale source for
Nursery Stock.

Send us your Want List.

C. R. BURR & CO., INC.
Manchester, Conn.

This Business of Ours

Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

AMERICAN HOLLY.

Nurserymen who grow American holly from seeds have always wished there was a way by which they could determine the sex of plants they were going to get and the sex of the plants they already had other than by the flowers or fruit.

The Boyce Thompson Institute reports in its Contributions for July to September, 1947, an experiment carried on for more than twelve years by Lela V. Barton and Norwood C. Thornton.

The investigators separated all the seeds collected into two groups according to size and sowed them to see if there was any correlation between seed size and sex. The seeds were sown, and as was usual with holly, none came up the first year, only a fair proportion the second year and the largest proportion the third year. Then came a long wait while the plants were transplanted and another wait until they flowered. After a large proportion had flowered, the experiment was terminated. Much to their disappointment, the investigators found no correlation whatsoever between seed size and sex. Their work did corroborate previous findings to the effect that the proportion of staminate to pistillate plants may vary from half and half to a proportion as low as ninety to ten.

Although twelve years is a long time to carry out an experiment and then obtain only negative results, such investigations yield valuable side lights.

E. S. H.

THE LOBLOLLY PINE.

The loblolly pine, *Pinus taeda*, has a wide range from the southern part of New Jersey down the east coast and into the south, yet it is rarely seen in nursery catalogs. This tree has many landscape uses, but is so common that it is not grown for sale. We made a small planting of it and soon learned that there would be considerable sale if we took the trouble to grow it.

There are two ways this plant can be handled by nurserymen in their landscape plantings. Seedlings from twelve to eighteen inches tall can be transplanted on the job especially for screen plantings and windbreaks. For such a planting the area should be plowed and disked, and the seedlings

should be planted six to ten feet apart and thinned later. These pines grow rapidly and will be six feet or more high in four years.

The other way to handle loblolly pines is to plant seedlings in nursery rows in heavy clay soil. The seedlings and untransplanted trees have a single taproot and must be moved when eighteen inches or less in height. However, a single transplanting will cause them to grow a satisfactory root system to hold a ball in clay soil. In local use we lose few when they are handled in this way. They probably would not ship well, however. They can be handled well up to six to eight feet high.

The loblolly pine is a 2 to 3-needle pine with needles four to six inches long, which are a bright green color with a slightly yellow tone that is not yellow enough to be displeasing. The bark is a rich warm brown. In the

woods the tree grows tall and slender and sheds all its lower branches. When planted in the open on a lawn it spreads and makes a broad round-headed tree and will keep its lower branches even to the ground until it is twenty feet high. Even a large, mature tree will not lose many of its lower branches and will be just right to walk under. When used on the lawn small loblolly pines may be kept bushy by pruning back half of the soft candle-like growth in the spring. This may be done by pinching with the thumbnail. Sometimes the pine-tip weevil, which occasionally attacks them, will do this for you.

I doubt if a more beautiful landscape picture can be made than one produced by the soft green of the loblolly pine and the dark green of the native cedar faced with white dogwood.

The second-growth loblolly pine

EVERGREEN ROOTED CUTTINGS and TRANSPLANTS

Heavily rooted stock. Early spring shipment.

Write for our full list.

	Per 100	Per 1000
Arborvitae Bonita, R. C.	\$ 8.00	\$ 75.00
Plicata, R. C.	8.00	75.00
Siberian, R. C.	8.00	75.00
Cypress, Allumi, R. C.	10.00	....
Irish Juniper, R. C.	8.00	75.00
Irish Juniper, 6 to 7 ins., X	16.50	....
Andorra Juniper, R. C.	9.00	....
Hex Crenata (Jap. Holly), R. C.	9.00	....
Taxus Cuspidata, R. C.	8.00	75.00
Cuspidata Capitata, R. C.	8.00	75.00
Baccata (English Upright), R. C.	8.00	75.00
Repandens (English Spreading), R. C.	8.00	75.00
Hickoi, R. C.	9.00	....
Jeffreya, R. C.	10.00	....
Retinospora Plumosa, R. C.	7.00	65.00
4 to 6 ins., X	15.00	....
6 to 8 ins., X	20.00	....
Pisifera aurea, R. C.	7.00	65.00
Goldust, R. C.	7.00	65.00
Obtusa, R. C.	7.00	65.00
Obtusa Crippsi, R. C.	9.00	85.00
Bleeding Hearts, Eximia.	15.00	120.00

ESHAM'S NURSERIES
FRANKFORD, DEL.

MAINE-GROWN

EVERGREEN TREE SEEDLINGS FOR SPRING SHIPMENT

Evergreen tree seed is again becoming more readily available. We can now offer to the trade the following varieties in quantity lots:

MUGHO PINE

2-yr., 2 to 4 inches. Per 1000. ...\$20.00

BLACK HILL SPRUCE

3-yr., 3 to 6 inches. Per 1000. ...\$15.00

Our terms are 50% with the order, shipment C.O.D. for balance of order.

WESTERN MAINE FOREST NURSERY CO.
Dept. AN-38 Fryeburg, Maine

The HOME of

Better New Perennials PLANTS THAT PAY THEIR WAY!

Originators — Disseminators

CORLISS BROS. INC., NURSERIES

307 Keyard St.

Gloucester, Mass.

The **CHRYSANTHEMUM**
CATALOG you cannot afford
to be without.

WONDERLAND NURSERIES
Ellerson, Va.

50 Years of growing

Rhododendrons
Azaleas

Perennials, Roses
All Nursery Items

BOBBINK & ATKINS
E. RUTHERFORD, N. J.

1898 OUR GOLDEN ANNIVERSARY 1948

WHILE THEY LAST— THE FAMOUS **VIGORO** *Beauty Plans!* TO GIVE TO YOUR CUSTOMERS!

●The supply is limited, so don't delay. Write today for your copies of the popular Vigoro Beauty Plans. They're available without cost to give to your customers with the purchase of Vigoro.

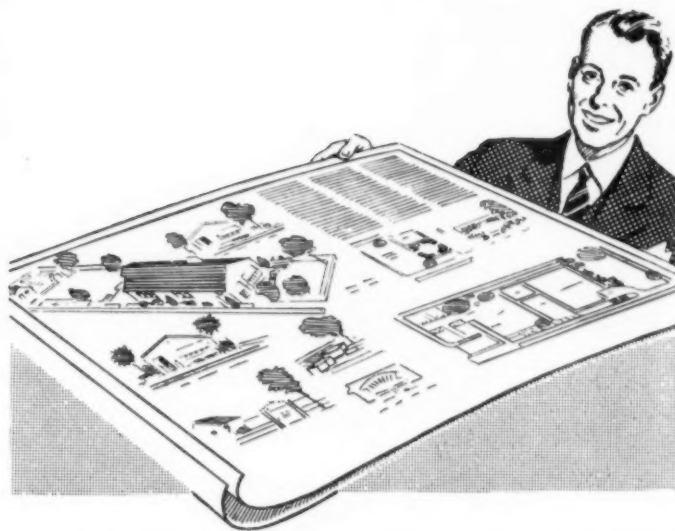
Professionally planned — complete in every detail — these plans tie in beautifully with your own business. For your copies, write direct to:



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Plant Food Division

U. S. Yards Chicago 9, Ill.



still is an important timber crop, but the tree rarely grows more than twenty-four inches in diameter. However, I have been told that the last remaining stands of virgin loblolly pine contain specimens four feet in diameter. When one sees a giant specimen growing along the shore of an inlet of Chesapeake bay, it makes as imposing a picture as any giant oak.

E. S. H.

J. C. HANSON has started the Evergreen Acres on Route 1, Cedar Lake, Ind.

THE new address of the Kinghorn Nursery, formerly at 1122 West Mountain avenue, Fort Collins, Colo., is now Route 2, Box 37, Fort Collins.

ERNST KOENIG, Route 2, Box 188, Sharpsburg, Pa., has moved to Route 2, McNeal road, Allison Park, Pa.

PHILLIPS NURSERIES, INC., Concord pike, R. D. No. 2, Wilmington, Del., has been incorporated by William E. Phillips, formerly of Styer's Nurseries, Concordville, Pa., and Richard Schwoebel, nurseryman of Ardmore, Pa., who will open a nursery and landscape sales office about March 15 on Route 202 near Wilmington.

EVERGREENS

Northern-grown

Canadian Hemlock, Am. Arborvitae,
Balsam Fir

	Per 100	Per 1000
2 to 4 ins., sdgs...	\$ 0.80	\$ 5.00
3 to 6 ins., sdgs...	1.20	8.00
6 to 9 ins., sdgs...	2.00	12.00
9 to 12 ins.....	5.00	35.00
12 to 18 ins.....	7.00	50.00
18 to 24 ins.....	20.00	....

Freshly collected. Well rooted.
Puddled and packed in sphagnum moss.

Orders filled in order received.

WILLIAM CROSBY HORSFORD
CHARLOTTE, VT.

NURSERY STOCK, ROOTED CUTTINGS

From bench in propagating house. For shipment about May 1, 1948. No orders accepted for less than 100 of a variety.

	Per 100	Per 1000
Buxus Suffruticosa	\$ 5.00	\$ 75.00
Eucynymus Vegetus	10.00	90.00
Ilex Glabra	10.00	90.00
Taxus Cuspidata	8.00	75.00
Taxus Cuspidata Capitata, tip cuttings	12.00	100.00
Taxus Cuspidata Brevifolia Nana	12.00	100.00
Taxus Media	12.00	100.00
Taxus Media Halloran	15.00	140.00
Taxus Media Hatfield	12.00	100.00
Taxus Media Hicksi	8.00	75.00
Taxus Intermedia	12.00	100.00
Taxus Browni	15.00	140.00
Thuja Occidentalis Pyramidalis	10.00	90.00
Thuja Occidentalis Nigra	10.00	90.00
Thuja Occidentalis Compacta	8.00	75.00

E. D. ROBINSON SALES AGENCY
WALLINGFORD, CONN.

EVERGREEN LINERS

TAXUS CUSPIDATA CAPITATA from
seeds, twice transplanted, 9 to 18
inches.

Once transplanted, TAXUS HAT-
FIELDI, HICKSI and CUSPIDATA,
HEMLOCK and PFITZER JUNIPER.

Get acquainted with
Brookfield Evergreens.

BROOKFIELD GARDENS
DELAWARE, N. J.

KOSTER NURSERY

Division of Seabrook Farms

Wholesale Nurserymen

BRIDGETON, N. J.

Write for wholesale price list of
lining-out and specimen stock
in better evergreens and shrubs.

YOUR PROFITS GROW IN VERHALEN PLANTS



VONEHRON JUNIPER GROWN PYRAMIDAL

Constant rich green color.

Full bodied—many times sheared.

Suitable for specimens or hedges.

Available in quantity.

3 to 4 ft. \$3.00 4 to 5 ft. \$3.50

Prices for 50 or more. F.O.B. Scottville.

VERHALEN NURSERY COMPANY
SCOTTSVILLE, TEXAS

We Offer for Immediate Delivery

GRAPEVINES

20 varieties, both 1-year and 2-year sizes, with special offers on quantity lots of **Concord, Niagara, Fredonia, Portland and Catawba.**

CURRENTS

Red Lake, Cherry and President Wilder.

PURPLE RASPBERRIES

Sodus, Marion and Columbian, No. 1 tips.

LINING-OUT MATERIAL

All common varieties of small Fruits.

Every plant graded to our high standard. Let us quote on your small Fruit requirements.

H. E. CONGDON NURSERY
NORTH COLLINS, N. Y.

ROSEBUSHES

In refrigerated storage.

Bare root or Packs

ARP
NURSERY CO.
TYLER, TEXAS

PECAN TREES

Commercial grove or landscape.

Wholesale Catalog

SPRING SHIPMENT, OR 1949 CONTRACT PRODUCTION.

AMERICAN NURSERYMAN

LAKE COUNTY GROUP PLANS BEETLE CONTROL.

A good attendance marked the dinner meeting of the Lake County Nurserymen's Association, which was held February 23 at the Richmond Valley Inn, Painesville, O. Nurserymen from all parts of the county were present, and Charles E. March, rose grower, Painesville, and C. W. Harris, Harris Nursery Sales, Painesville, were welcomed as new members of the association.

Charles Kohankie, Henry Kohankie & Son, Painesville, reported that the committee working on the display for the Cleveland flower show was making good progress and that the members expected to begin collecting the material February 25. Mr. Kohankie asked other members of the association to assist with the final planting of the garden, and everyone was cooperative. A schedule was arranged so that representatives of the group would be present at the display during the eight days of the show.

John W. Baringer, chief of the division of plant industry, Columbus, introduced two assistants, Harold Porter and Dr. Joseph Polivka, of the Ohio experiment station, Wooster, who are experts on Japanese beetle control. Mr. Baringer reported on the DDT dusting which was done by plane last year. He stated that the results were encouraging but not so good as had been hoped, because the insects emerged later and over a longer period last summer than ever before. However, it is still too early to determine the final results, since this can only be done when the next crop of beetles emerges. The expense of two dustings of ten per cent DDT amounted to \$11,216, or approximately \$6,000 per application. The Lake county nurserymen contributed \$1 per acre, or \$2,850 toward the total cost, and the Ohio state department of agriculture appropriated the balance.

Mr. Baringer reported that he had written the United States Department of Agriculture February 10 asking for comments on the program. In reply officials of the department had stated that they believed a sincere effort had been made to reduce the beetle population in the Lake county area. The final results cannot be determined until next season, but the local inspectors believe that the beetle population will be markedly reduced and that some of the nurserymen will benefit. The United States Department of Agriculture stated that it would be glad to be advised of any further plans in regard to the work.

SCARFF'S Nursery



Headquarters for Small Fruit Plants
RED RASPBERRIES—BLACK RASPBERRIES
PURPLE RASPBERRIES, Sodus and Marion, 1-yr.
and transplants.
BOYSENBERRIES, 1 and 2-yr.
BLUEBERRIES, 18 to 24 ins.
BLACKBERRIES—JUNE BERRIES

ORNAMENTAL SHRUBS

Here are a few items in surplus. Send your list for lowest quotations.

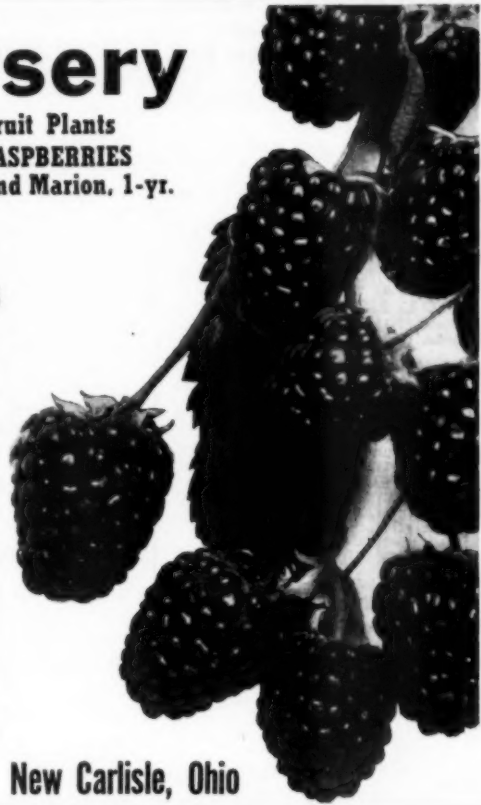
Buddleia Charming, 2 to 3 ft. **For. Suspensa**, 3 to 4 ft.
Cornus Mas, 2 to 3 ft. **Hamamelis Vernalis**, 3 to 4 ft.
Cydonia Japonica, 2 to 3 ft. **Lon. Tatarica Rubra**, 3 to 4 ft.
Forsythia Spectabilis, 3 to 4 ft. **Lon. Zabeli**, 3 to 4 ft.
White Lilac (Common), 18 to 24 ins.

FRUIT TREES

	Each 11/16- in.	Each 9/16- in.
Montmorency Cherry	\$0.90	\$0.75
Ea. Richmond Cherry	.90	.75
Apricots		
Manchurian	.60	.50
Mahaleb Cherry adlg. No. 1, 3/16-in.	\$30.00	per 1000

W. N. SCARFF'S SONS

New Carlisle, Ohio



Dr. Joseph B. Polivka told how dusting has affected the beetle population in the Lake county area, illustrating his discussion with charts. His report was based upon direct observations during the July dustings. Dr. Polivka and Mr. Porter then answered questions concerning beetle control.

During 1948 there will be no extension of the quarantine for the Japanese beetle, which has been enforced in Mentor township and the western part of Painesville township for some time. If the dusting had not been done last year, the quarantine might have been extended.

Mr. Baringer recommended that the nurserymen in the area repeat the dusting program this summer and suggested using three applications instead of two. He was confident that the state department of agriculture would be willing to appropriate funds on the same basis as in the past year. This would mean that the nurserymen would contribute \$1.50 per acre as their share of the cost, or fifty per cent more than the amount given in 1947, which would provide for three dustings of ten per cent DDT. With this extra effort and the knowledge gained from the past year's experience, more direct results should be obtained.

Barrett Cole, Cole Nursery Co.,

10,000 JAPANESE YEWS

5-year, twice transplanted

Hicks, Berrybush, Vermeulen
and Intermedia.

\$550.00 per 100.

Dug at nursery.

H. VOELLMAR

42 Park Ave. Danbury, Conn.

BARBERRY SEEDLINGS

	Per 1000
3 to 6 ins.	\$ 7.00
6 to 9 ins.	10.00
9 to 12 ins.	15.00
2-yr. Sdgs.	
10 to 12 ins. br.	20.00
12 to 15 ins. br.	30.00
Red Barberry in 2-yr. sdgs.	\$10.00
per 100 higher, 10% or more on all grades in less than 1000 lots. Order early; limited quantity.	

LUTHER P. CREASY NURSERIES,
CATAWISSA, PA.

50,000 LIGUSTRUM OVALIFOLIUM

Vigorous healthy stock.

Excellent root system.

2-year plants cut back last winter.

	Per 1000
18 to 24 ins., 4 to 5 canes.	\$ 50.00
2 to 3 ft., 5 to 8 canes.	75.00
3 to 4 ft., 5 to 8 canes	
and more.	100.00

HENRY F. BOSENBERG

Livingston Ave., R.F.D. No. 4
New Brunswick, N. J.

Our origination, **JUNIPERUS GLAUCOA HETZL**, has been sold out completely for Spring, 1948. We are booking orders now for Spring, 1949. 2-yr. liners, 10 to 15 ins., \$32.50 per 100, \$300.00 per 1000.

We have a surplus of **Red and Green Barberry Seedlings** for Spring, 1948 shipment. Write us for your needs.

FAIRVIEW EVERGREEN NURSERIES

F. C. Hetz & Sons
FAIRVIEW, PA.

SWEET and SOUR CHERRIES

This offering is surplus over our own needs from a block of cherries contract-grown for us by one of the best cherry growers in the United States. As is often the case when complete blocks of stock are contracted, we could not anticipate our needs exactly and have developed overage in some grades, particularly the larger ones.

As we are primarily retailers, we do not have wholesale contacts for the moving of this material. We are therefore offering these fine-quality cherries to the trade at figures that should appeal to any nurseryman needing top-grade 1-year cherry trees.

1-YEAR SWEET CHERRIES

- 500 **Black Tartarian**, 7/16 to 9/16-in., 3 ft. and up.
 1000 **Black Tartarian**, 9/16 to 11/16-in., 4 ft. and up.
 800 **Black Tartarian**, 11/16-in. and up, 4½ ft. and up.
 800 **Governor Wood** (yellow with red cheek), 7/16 to 9/16-in., 3 ft. and up.
 600 **Yellow Spanish**, 7/16 to 9/16-in., 3 ft. and up.
 700 **Napoleon Biggareau** (Royal Anne), 9/16 to 11/16-in., 4 ft. and up.
 1000 **Yellow Spanish**, 9/16 to 11/16-in., 4 ft. and up.
 500 **Napoleon Biggareau**, 11/16-in. and up, 4½ ft. and up.

Prices:	Per 10	Per 100	Per 1000
7/16 to 9/16-in., 3 ft. and up...	\$ 7.00	\$65.00	\$600.00
9/16 to 11/16-in., 4 ft. and up...	8.50	80.00	750.00
9/16 to 11/16-in., 4½ ft. and up	10.00	95.00	900.00

30 or more at 100 rate; 300 or more at 1000 rate.

1-YEAR SOUR CHERRIES

- 1100 **Early Richmond**, 9/16 to 11/16-in., 3 ft. and up.
 1500 **Montmore** (Improved Montmorency), 9/16 to 11/16-in., 3 ft. and up.
 1000 **Montmore** (Improved Montmorency), 11/16-in. and up, 3½ ft. and up.
 1200 **Montmorency**, 9/16 to 11/16-in., 3 ft. and up.
 650 **Montmorency**, 11/16-in. and up, 3½ ft. and up.

Prices:	Per 10	Per 100	Per 1000
9/16 to 11/16-in., 3 ft. and up...	\$ 8.50	\$80.00	\$750.00
11/16-in. and up, 3½ ft. and up	10.00	95.00	900.00

30 or more at 100 rate; 300 or more at 1000 rate.

All stock ready for immediate shipment.

Terms: Free packing for cash with order. Prices F.O.B. Shenandoah, Ia. To unknown parties, 25 per cent cash with order, balance C.O.D.

HENRY FIELD SEED & NURSERY CO., Shenandoah, Iowa

tional real estate and extended its interests into several fields.

In 1931, the company was re-incorporated under its present name. M. R. Cashman, W. H. Hart, J. R. Laughlin and James E. Cashman disposed of their stock and entered other businesses. Thomas E. Cashman retained the control and management of the corporation, while J. A. Cieszinski remained with the firm as a stockholder and officer.

Thomas E. Cashman died in 1933 and was succeeded by his son, Thomas E. Cashman, Jr., who assumed the management of the business, resigning after serving seven years. M. R. Cashman then became manager and supervised the business of the corporation until his resignation in July, 1947. T. J. Cashman, youngest son of the founder, was elected manager last July.

The Cashman Nurseries, Inc., is a member of the Minnesota State Nurserymen's Association and of the American Association of Nurserymen.

THE Glaser Landscape Co., 3340 Secor road, Toledo, O., has been taken over by Arthur W. Landseadel and has been renamed the Secor Landscape Co.

The lovely

Yellow

Rose

V for Victory

and other

SUB-ZERO HYBRID TEAS

Large and beautiful as any.
 Easy to grow and long to live.
 Save replacement expense.
 Also Yellow and Orange Climbers.

Write for trade prices to

BROWNELL ROSES
 LITTLE COMPTON, R. I.



**ORNAMENTAL
 EVERGREENS**

Trees & Shrubs

BAGATELLE NURSERY
 P. O. Huntington Station, N. Y.

**READY TO GO
 AS SOON AS DUG.**

Carlots of 600 to 800 trees.

Tsuga canadensis, 3 to 4 ft., well sheared, \$2.75 each; truckloads at nursery, \$3.00 each.

California Privet, 30 to 36 ins., 4 branches and up, \$65.00 per 1000.

Berberis thunbergii (Barberry),

Per 1000
 6 to 9-in. seedlings.....\$18.00
 9 to 12-in. seedlings.....25.00

Berberis thunbergii atropurpurea,

6 to 12-in. seedlings.....35.00

9 to 12-in. seedlings.....65.00

12 to 15-in. seedlings.....80.00

3000 *Grapevines*, 2-yr., 6 varieties, \$120.00 per 1000.

10,000, 2-yr. *Apple Trees*, standard varieties, in healthy and growing condition, Per 1000

4 to 5 ft.....\$225.00

5 to 6 ft.....275.00

Write us regarding Chinese Chestnut seedlings.

HOME NURSERY CO.

PHONE: 89-W FORT GAY, W. VA.

**HARDY NATIVE
 EVERGREENS**

Collected Stock. Well rooted.
**Canadian Hemlock, American
 Arborvitae, Balsam Fir**

Per 1000

3 to 6 ins.....\$ 8.00

6 to 9 ins.....12.00

9 to 12 ins.....35.00

12 to 18 ins.....50.00

Cash please.

R. M. COLE

Box 37

Charlotte, Vt.

New Books and Bulletins

RESULTS WITH AUXINS.

A 272-page digest which should prove invaluable as a quick reference handbook for the propagator of woody plants is "The Use of Auxins in the Rooting of Woody Cuttings," prepared by Kenneth V. Thimann and Jane Behnke. Methods, techniques and results of the principal experimental work relating to the propagation of woody plants by cuttings, compiled from data covering the period from 1937 to the middle of 1947, are tabulated in the manual, which is convenient to use, since plant materials are arranged alphabetically by genera and species. Numbers after each genus and species indicate references to the bibliography of 274 publications appearing at the back of the book. All pertinent information is presented in tabular form, and a separate column is devoted to such factors as type of cutting, time of collection, kind and concentration of auxin, special treatments, days in the medium and conclusive results.

The volume is published by the Maria Moors Cabot Foundation under the auspices of the Harvard Forest, Harvard University, Petersham, Mass., at \$1.

PLANT HORMONE GUIDE.

Simply and clearly written, "Growth Regulators," a practical handbook prepared by John W. Mitchell and Paul C. Marth, bureau of plant industry, soils and agricultural engineering, United States Department of Agriculture, describes the proper use of synthetic plant hormones for the lawn, garden, field and orchard. Based upon experiments conducted by the United States Department of Agriculture as well as state experimental stations, the illustrated volume contains information on how to kill lawn weeds, ragweed and poison ivy without injuring the lawn or garden, how to make cuttings root quickly, how to improve storage qualities of rosebushes, potatoes and other plants, how to increase the yield and improve the quality of tomatoes and how to prevent fruit drop and hasten fruit ripening.

A list of available chemicals with their trade names and manufacturers makes this a particularly useful book. In addition, extensive tables give trees, shrubs and plants by both common and scientific names, listing rooting treatment, time required and

results achieved from the use of growth regulators, which have found increasing use within the past twelve years.

A convenient index to plants and chemicals is contained at the back of the book, which is published by the University of Chicago Press, Chicago, at \$2.50.

PLANT GROWTH CONTROL.

A study of the use of chemicals involving hormones in the control of plant growth, "Hormones and Horticulture," by George S. Avery, Jr., and Elizabeth B. Johnson, with the collaboration of Ruth M. Addoms and Betty F. Thompson, is a significant contribution to botanical and horticultural science. Basing their book upon studies in plant physiology carried on in numerous laboratories, the authors have aimed to assimilate the practical advances that have sprung from this work, incorporating

widely scattered and often theoretical information on the use of special chemicals in the regulation of plant growth.

Specific directions for applying the various chemicals as well as evaluations of their usefulness in horticultural practice are amplified with tables and illustrations. Referred for criticism to horticulturists who are specialists on the subjects concerned, the various chapters deal partly with hormones and partly with other chemicals, some of which are not now regarded as hormones. Of particular interest to nurserymen are the chapters relating to the use of hormones in rooting cuttings; treating seeds; inducing, producing and breaking dormancy, and in weed control, while fruit growers would find of value the material on hormone control or preharvest fruit drop, fruit set and blossom thinning.

Extensive bibliographies supplement the chapters, and an author and subject indexes are also included. The 326-page volume is published by the McGraw-Hill Book Co., New York, at \$4.50.

ROSES—LAST CALL!

TWO-YEAR, FIELD-GROWN

(Budded on *Japanica Multiflora*)

Delivery made now or in Spring.

These Roses are GROWN RIGHT—GRADED RIGHT—SHIPPED RIGHT.

ORDER TODAY FROM THIS AD.

PRICES

500 Lots and over: No. 1, 40c; No. 1½, 30c; No. 2, 25c.

100 to 500 Lots: No. 1, 45c; No. 1½, 35c; No. 2, 30c.

Orders for less than 100 Roses: No. 1, 50c; No. 1½, 40c; No. 2, 30c.

ORDER GROUPS OF 10. WE DO NOT BREAK BUNDLES. We will wrap these Roses in individual packages and label for an additional 5c each.

TERMS: CASH WITH ORDER AND NO CHARGE FOR PACKING. WE WILL, HOWEVER, ACCEPT 25% WHEN ORDER IS PLACED—BALANCE C.O.D. PACKING CHARGES ON ALL C.O.D. ORDERS.

Ami Quinard
Betty Uprichard
Briarcliff
Caledonia
Columbia, Bush
Druschki, Red, H. F.
Edith Nellie Perkins
Etoile de Hollande

White
American Beauty
Francis Scott Key
Editor McFarland
Golden Dawn
K. A. Viktoria
Luxembourg

Paul Neyron, H. P.
Pink Radiance
Red Radiance
E. G. Hill
President Hoover
Talisman, Yellow
Talisman, Regular

CLIMBERS

Paul's Scarlet
Mrs. P. S. Du Pont

Cl. Talisman
Cl. Red Radiance

ORDER TODAY FROM THIS AD.

OZARKS PLANT FARMS, INC.

R. F. D. NO. 3, BOX 317

SPRINGFIELD, MO.

LINING-OUT STOCK

	Per 100	Per 1000
4000 <i>Juniperus hetzi</i> , 2-in. pots, 6 to 10 ins.....	\$32.50	\$275.00
2000 <i>Taxus cuspidata</i> , 2¼-in. pots, 6 to 10 ins.....	22.50	175.00
800 <i>Cornus alba sibirica</i> , 1-yr. H.C., 8 to 12 ins.....	5.50	45.00
2000 <i>Euonymus alatus</i> , 2-yr. S.C., 6 to 8 ins.....	15.00	125.00
450 <i>Cydonia japonica</i> , 1-yr. H.C., 8 to 12 ins.....	7.50	65.00
750 <i>Forsythia spectabilis</i> , 1-yr. H.C., 8 to 12 ins.....	6.50	55.00
450 <i>Physocarpus opulifolius</i> , 1-yr. H.C., 8 to 12 ins.....	6.50	55.00
500 <i>Physocarpus op. aureus</i> , 1-yr. H.C., 8 to 12 ins.....	6.50	55.00
1000 <i>Spiraea froebelii</i> , 1-yr. H.C., 8 to 12 ins.....	5.50	45.00

Shermer Rd.

GOLF NURSERY

Northbrook, Ill.

PEST CONTROL DIRECTORY.

Edited by George S. Langford, department of entomology, University of Maryland, College Park, the seventh edition of "Entoma," a 416-page directory of insect and plant pest control, has been published by the eastern branch of the American Association of Economic Entomologists at \$1. Information contained in the book includes kinds of insecticides and fungicides and their uses and sources. Listings include manufacturers of insecticides and fungicides with trade names, entomological supplies and equipment, insecticide and fungicide machinery and supplies and entomological services, such as seed disinfectants, trade name materials, spraying and dusting machinery, commercial arborists and pest control operators. Information is also provided concerning state and federal agricultural bureaus and officials together with a directory of associations and societies.

WEED CONTROL MANUAL.

Available to the public for the first time, "Turf Weed Control with 2,4-D," a study prepared by the National Capital Park Service for government use, reports the scientific and practical results of three years' research on weed eradication. Details of a new one-step turf-building treatment developed by the National Capital Park Service to beautify the White House grounds are presented along with a seasonal sensitivity schedule for over fifty weeds and many other eradication innovations developed by Dr. Fannie-Fern Davis, turf consultant of the National Capital Park Service.

Included in the 60-page manual are full details of chemical formulations, equipment and application instructions with thirty-one actual photographs illustrating the eradication of pernicious weeds, weedy trees, honeysuckle and such noxious menaces as goldenrod and ragweed.

Of value to technicians, grounds superintendents and homeowners, the volume offers both scientific discussions as well as practical methods. It is published by the Hobart Publishing Co., Washington, D. C., with the permission of the United States Department of the Interior, at \$3.50.

BULLETINS RECEIVED.

"Annual Flowers," by John V. Watkins, bulletin 133 of the agricultural extension service, University of Florida, Gainesville, gives instructions to the amateur gardener for selec-

ATTENTION PRIVET BUYERS!

We have some of the finest Privet that it has ever been our pleasure to have grown. Vigorous, healthy stock with excellent root systems. All Privet has been cut back and is well branched.

Get your orders in while you have a chance to get this wonderful stock.

**LIGUSTRUM AMURENSE—
Amur River North Privet**

	Per 100	Per 1000
Rooted Cuttings	\$2.00	\$17.50
6 to 12 ins., 2 br. and up.	3.00	25.00
12 to 18 ins., 2 br.	4.00	35.00
12 to 18 ins., 3 br. and up.	6.00	45.00
18 to 24 ins., 2 br.	6.00	45.00
18 to 24 ins., 3 br. and up.	7.00	60.00
2 to 3 ft., 4 br. and up.	8.00	75.00

LIGUSTRUM IBOLIUM—Ibodium Privet

Rooted Cuttings	2.00	17.50
6 to 12 ins., 2 br. and up.	3.00	25.00
12 to 18 ins., 2 br.	4.00	35.00
12 to 18 ins., 3 br. and up.	6.00	45.00
18 to 24 ins., 2 br.	6.00	45.00
18 to 24 ins., 3 br. and up.	7.00	60.00
2 to 3 ft., 4 br. and up.	8.00	75.00

LIGUSTRUM OVALIFOLIUM—California Privet

Rooted Cuttings	2.00	20.00
6 to 12 ins., 2 br. and up.	2.50	17.50
Grafting size	3.00	25.00
12 to 18 ins., 2 br.	3.00	25.00
12 to 18 ins., 3 br. and up.	4.00	30.00
18 to 24 ins., 2 br.	4.00	30.00
18 to 24 ins., 3 br. and up.	5.00	40.00
2 to 3 ft., 4 br. and up.	6.00	50.00
3 to 4 ft., 4 br. and up.	8.00	70.00

5% discount for all orders for 10,000 or more.

All stock sold F.O.B. McMinnville, Tenn.

Boyd
NURSERY COMPANY
McMinnville, Tenn.

**CHINESE BLIGHT-RESISTANT
CHESTNUT TREES**

Castanea mollissima.
Per 100 Per 1000
1-yr. L.O. grade. . . . \$20.00 \$200.00
Packing at cost. March delivery.
America's largest and best source of
Chinese Chestnut Trees.

Terms: Cash with order, or 25% and balance C.O.D. Orders accepted on the basis that they shall be void should conditions happen over which we have no control.

THE GOLD CHESTNUT NURSERY
Cowen, West Va.

We Offer—

EVERGREENS—In a large assortment of PYRAMIDAL and GLOBE ARBORVITAE, FITZGER JUNIPER and YEWs in grades at attractive prices. **SOME LARGE SPECIMEN EVERGREENS, SHRUBBERY and SHADE TREES.**

Mail want list for prices.

THE WESTMINSTER NURSERIES
Westminster, Md.

MUGHO PINE

\$20.00 per 1000
2-year, 2 to 4 inches.

4-year NORWAY SPRUCE

transplants, 8 to 16 inches.
Ideal for understock.
\$90.00 per 1000.

MUSSER FORESTS, INC.
INDIANA, PA.



Not a Textbook --- but a Businessman's Brochure! "HOW TO MAKE YOUR OWN NURSERY ADS THAT SELL"

By J. H. Slingerland

Banish doubts — Know the Answers!

This telegraphically simple 4-step Fundamentals of Nursery Stock Advertising teaches YOU how to MAKE ADS THAT SELL. Cheered by 300 Nurserymen in their January meetings—complimented by 100 more in February.

BUILT A MILLION-DOLLAR BUSINESS

Written by an Advertising Man turned Nurseryman — this identical 4-step Method built a Million-dollar Nursery business in 3 years. "Worth \$100!"—"One hour with this and I can do it!"—"Rings the bell!"—"You really have something!"—say nursery owners.

GIVES FACTS—NOT GENERALITIES

Here's what this brass-tack, pin-point Brochure tells you, teaches you, does for you . . .

- Gives you complete understanding of the 2 Principles that Make Ads Sell and tells YOU how to apply them yourself.
- Identifies the TWO Fundamentals of Advertising so you can use ads successfully.
- Gives you the 3 STEPS in Planning an Advertising Program that SELLS—and shows you how to work them out automatically.
- Gives the KEY to writing Headlines That Sell, so YOU can write them.
- Tells the SOURCE of Selling Copy and how YOU let it write itself.

TEACHES WITH CONVICTION, PROOF

Dramatic, pointed humor "sugar coats" the calm, logical, telegraphically brief teaching technique, makes the lessons "sink in." No ifs, ands, buts or qualifications—no extra words. One hour with "How to Make Your Own Nursery Ads That Sell" and YOU CAN START building your own ads. Includes complete artist's drawing of fully executed ad, embodying ALL FOUR STEPS taught you in the Brochure—proving you can do it, because you'll recognize that headlines and copy fit the "lessons" perfectly.

FILLED WITH "PROFIT PLUS" IDEAS

In addition to advertising, this Brochure gives you "no-cost" sales-getting ideas . . .

- How to DOUBLE and TRIPLE the customer flow into your nursery.
- How to get repeated free publicity news items and photographs of your nursery in your local newspaper.
- How to get the whole town talking about your nursery, recommending you.
- How to advertise any item in your nursery so the customer can't buy it anywhere else; he must come to you.
- How to get higher prices for all advertised nursery items.
- How to beat the chains without cutting prices; take their business away.
- Reveals 12 specific, huge sales opportunities this year—when people in your town must spend money—and tells you how to have it spent for Nursery Stock.

COMPLETE YEAR-ROUND AD PROGRAM

Starts a complete year-round advertising program this spring for YOUR nursery—YOUR Own Town—YOUR Local Paper. Twenty years' advertising and selling experience backs up every recommendation. You'll agree with everyone—NOW KNOW how to do them yourself—quickly, confidently, successfully.

Price only \$5.00 per copy

Available direct from author only. He was formerly Advertising Manager of Montgomery Ward's Nursery Stock Department; Director of Dale Carnegie Institute, Chicago; Guest Professor, Northwestern University. Free advisory service and ad analysis to all purchasers.

Order today—
send check or money order.

J. H. SLINGERLAND

Box 528

Wheaton, Ill.

TWO-YEAR, FIELD-GROWN ROSES

Budded on Multiflora Japonica

For immediate or later delivery.

No. 1, \$35.00 per 100; \$300.00 per 1000.
No. 1½, \$27.00 per 100; \$225.00 per 1000.
No. 2, \$20.00 per 100; \$150.00 per 1000.

5 per cent discount where all cash accompanies order. 250 at 1000 rate.

E. G. Hill
Rouge Mallerin
Poinsettia
Knight
Luxembourg
Soeur Therese

Lady Hillingdon
Golden Ophelia
Betty Grace Clark
K. A. Viktoria
Antoine Rivoire
Peter's Briarcliff

Pink Radiance
Talisman
Pres. Hoover
Clb. Paul's Scarlet
Clb. Caledonia
Clb. Columbia

No. 1, 27½c; No. 1½, 20c; No. 2, 14c.

Red Radiance
Syracuse
Ami Quinard
Etoile de France

Barbarosa
J. L. Mock
Editor McFarland

Betty Uprichard
Nellie Perkins
Dr. Van Fleet

Grown, handled and packed expertly by all the latest scientific methods known. Order in multiples of 10. We grow our roses and are in position to give prompt service on rush orders.

QUALITY, PRICE AND SERVICE; ASK ANY ONE WE SERVE.

ROSE LAWN NURSERIES

BOX 295

WINNSBORO, TEX.

EVERGREEN LINERS

Taxus, many varieties.
Potted liners.

Ask for our latest price list.

HEASLEY'S NURSERIES
Freeport Road, Butler, Pa.

ONE-YEAR CUTTINGS

Per 100 Per 1000
Ligustrum ovalifolium,
18 to 24 ins. \$2.50 \$23.00
Foraythia spectabilis,
18 to 24 ins. 3.50 30.00

VAN HOF NURSERIES
View Ave. Middletown, R. I.

tion, sowing and culture of tender plants. Most of the 52-page bulletin discusses the individual species and varieties as to characteristics, forms, uses, culture and particular insect or disease enemies, if any. Well illustrated, it is a handy reference bulletin for the southern annual gardener.

"Pest Control in Commercial Fruit Plantings" has been prepared by Dwight Powell, S. C. Chandler and Victor W. Kelley and issued as circular 623 of the college of agriculture extension service, University of Illinois, Urbana. A revision of circular 610 of the same title, the new 40-page illustrated edition discusses insect and disease control with regard to apples, pears, peaches, plums, cherries, brambles, currants, grapes and strawberries with an accompanying spray schedule for each fruit. Rodent control and spray materials are also treated, and a key for identifying the newer organic materials is given.

Intended to present in concise form the important factors which must be taken into account in the preservation of wood to increase its serviceable life when used under conditions favoring deterioration by decay and insects, bulletin 509, "The Preservative Treatment of Fence Posts and Other Structural Materials," has been issued by the Connecticut agricultural experiment station, New Haven. Prepared by Henry W. Hicock and A. Richard Olson, the 20-page bulletin discusses causes of deterioration, conditions favoring decay, the degree of protection needed, preservatives and methods as well as mixing solutions. Tables and diagrams supplement the text, and a reference list as well as a convenient directory of manufacturers of preservatives is also included.

WEED CONFERENCE.

Organized last February at Cornell University, the Northeastern Weed Control Conference held its second annual meeting February 12 and 13, at the Commodore hotel, New York, N. Y. About 250 persons attended.

The objectives of the conference were to facilitate the exchange of information between industry and state experiment stations, to coordinate developments in all aspects of weed control and to aid an educational campaign directed to the public. The immediate accomplishment was the election of a policy committee which will make recommendations toward carrying out these objectives.

Reelected to office were Dr. G. H. Ahlgren, Rutgers University, New Brunswick, N. J., chairman; Dr. B. H.

C. M. Hobbs & Sons, Inc.

BRIDGEPORT INDIANA

Established 1875

**AMERICAN and
MOLINE ELM,**
up to 2-inch caliper.

SOFT MAPLE,
up to 2-inch caliper.

PEACH and APPLE,
in carlots.

General line of
**Shade Trees, Shrubs, Evergreens
and Fruit Trees.**

NATIVE PLUM SEEDLINGS

This is the first year for some time
that we have been able to offer to the
trade plum seedlings in quantity.

Used not only for budding fruit trees,
but generally for ornamental buds.

Offered subject to prior sale.

Per 1000
20,000 No. 2 (2/16 to 3/16-inch)...\$35.00
30,000 No. 3 (about 2/16-inch)... 20.00

SHERMAN NURSERY CO.
Charles City, Iowa

SPECIMEN LANDSCAPE MATERIALS

Our Specialty

TAXUS

W. A. NATORP CO.
Cincinnati 29, Ohio

SPECIMEN BOXWOOD

300 fine, collected specimens, 2 1/2 to
6 ft.; growing in our nursery. Will quote
on any quantity or size, F.O.B. or de-
livered, or will make low price on entire
lot. Can be left where they are for a
period of years with expert care and
removed as desired.

BLUE RIDGE NURSERIES
Rt. 2 SALEM, VA.

CANADIAN HEMLOCKS

Pot-grown. Shipped balled and wrapped to
assure you little loss. Kindly order from this ad.
3 to 6 ins., \$2.00; 6 to 9 ins., \$10.00, and
9 to 12 ins., \$12.00 per 100.

CALVIN S. GROBAKER
115 BEECHWOOD AVE., CATONSVILLE, MD.

Grigsby, Michigan agricultural ex-
periment station, Lansing, vice-chair-
man, and Dr. R. D. Sweet, vegetable
crops department, Cornell University,
Ithaca, N. Y., secretary-treasurer.
Benjamin Wolf, Seabrook Farms Co.,
Bridgeton, N. J., and C. F. Harris,
Shell Oil Co., comprised the program
committee which meets with the ex-
ecutive officers.

The possibilities of a national pub-
lication in the interest of weed eradica-
tion will be explored by a publica-
tions committee composed of Robert
H. Beatty, American Chemical Paint
Co., Ambler, Pa., chairman; H. B.
Nusser, Pennsylvania College, State
College, Pa.; Dale E. Wolfe, Rutgers
University, New Brunswick, N. J.,
and Benjamin Wolf, Seabrook
Farms Co., Bridgeton, N. J.

COVER ILLUSTRATION.

Zelkova Serrata.

Nurserymen are often asked this
question: What shade tree can I plant
besides an elm, maple, sycamore or
ash?" The answer is not easy, since
no new shade tree, aside from the
Chinese elm, has been introduced for
many years. It would be difficult to
improve upon our native elms and
oaks, but man naturally craves variety
in his landscape as well as in his food
and recreation. How many have
thought of the Zelkova serrata as
answering this demand for variety?

In spite of the fact that this tree
has been grown for many years in
some parts of the east, it is still com-
paratively unknown. Zelkova serrata
(there is no accepted common name)
came to us from Japan, where it is
an important timber tree, valued
highly as building material. The dura-
ble wood is dark brown and beauti-
fully grained.

Zelkova serrata grows into a
shapely, graceful, round-headed tree,
that is desirable not only as a street
tree, but also as an individual speci-
men. The mature tree in Japan attains
a height of 100 feet, but it would
probably fall short of that in this
country.

Although superficially resembling
the elm, zelkova has many distinguish-
ing characteristics. Its branches are
slender and twiggy, which makes it
less susceptible to wind injury than
the elm. In outline, its leaves re-
semble those of the American elm,
but are much smaller, being an inch
to an inch and one-half in length.
The flowers, which appear at the base
of the branches, are greenish, small
and inconspicuous; they are followed



Growers of a complete
line of deciduous and
coniferous species.

JEWELL NURSERIES, INC.
Lake City, Minn.

Northern-grown Stock

Send
for
Price
List.

J. V. BAILEY NURSERIES
St. Paul 6, Minn.

ORNAMENTALS TREES SHRUBS EVERGREENS

Wholesale growers of a
general assortment for
the best landscape plantings.

BRYANT'S NURSERIES
Princeton, Illinois

ROSA MULTIFLORA JAPONICA

SEEDLINGS.

\$12.50 per 1000. Splendid stock.
Sample, \$2.00. Cash with order.

BROOKVILLE NURSERIES
Glen Head, N. Y.

NORTHERN COLLECTED EVERGREENS FERNS

PLANTS
SHRUBS

WILLIAM CROSBY HORSFORD
Charlotte, Vermont

Northern-grown Stock FOR SPRING PLANTING

	Per	Per
2-yr. Seedlings.	100	1000
American Arborvitae	\$3.00	\$25.00
Mugho Pine	3.00	25.00
Norway Spruce	3.00	25.00
Colorado Blue Spruce	3.00	25.00
Douglas Fir	3.50	30.00
Black Spruce	3.00	25.00
Juniperus Scopulorum, 1-yr.	3.00	25.00
Platte River Red Cedar, 1-yr.	2.50	20.00

CEDAR and JUNIPER

100 per cent blight free.

Transplants,	Per	Per
Balsam Fir,	100	1000
6 to 8 ins.	10.00	\$ 80.00
8 to 12 ins.	12.00	100.00

SHRUBS

Pink Tat. Honeysuckle,	Per 100	Per 1000
12 to 20 ins.	\$5.00	\$45.00
6 to 12 ins.	3.00	25.00

Jap. Barberry Transplants, 8 to 10 ins.	6.00	50.00
--	------	-------

Above stock is of the best. Special prices on 10,000 or more. Cash with order please.

J. R. PALMER & SON

Blackduck, Minn.

Northern - grown California Privet

Sizes: 12 to 18 ins.,
18 to 24 ins.

Select European Sycamore
in all sizes.

T. B. WEST & SON
PERRY, OHIO

EVERGREENS

in Cloverset Pots

Transplanted two or more times.

Arborvitae, American, 12 to 18 ins.	\$1.00
Arborvitae, American, 18 to 24 ins.	1.25
Boxwood, hardy, 6 to 8 ins.	.60
Fir, Douglas, 12 to 18 ins.	1.00
Spruce, Norway, 12 to 18 ins.	1.00
Spruce, Norway, 18 to 24 ins.	1.25
Taxus cuspidata, 12 to 18 ins.	2.50

Truck lots only. No shipping.

**ANDERSEN'S
EVERGREEN NURSERIES**
Scottville, Mich.

**Nursery Stock at
Wholesale Only.**

ARTHUR DUMMETT

Bernardsville, N. J.



by small, flattish inconspicuous greenish fruits, which remain all summer.

Zelkova serrata apparently is not particular as to soil requirements and is known to be hardy in as widely differing areas as Massachusetts and Kansas. In rate of growth, it is fairly rapid, though probably somewhat slower than the American elm.

J. J. Pinney.

NEW ARBORETUM IN OHIO.

The new Adell Durbin Arboretum at Stow, O., is rapidly developing, according to its superintendent, John Denning, who was formerly in the landscape service business at Stow. The land for the arboretum is owned by the township of Stow and is operated by the local park board with maintenance under the direction of an experienced landscape man. Of the twenty-three acres in the arboretum, about one-third is in wooded area. Trails have been made through the natural forest of maples and oaks so that traffic will be kept off wild flowers and new plant growth. The arboretum is not to be artificially landscaped, but an attempt will be made to have plants grow naturally. The park is open to visitors daily.

All new plantings will be made of single plants to grow into specimens. Plants will include all material that grows in that zone, including fruits, nuts and berries. Hedge plants will not be used in quantity, but only as specimens. New varieties will be given special attention.

All specimens are to be clearly labeled with heavy aluminum labels. Both the botanical and common name will appear on each label along with the name of the original grower. A record of the grower will also be kept in the office.

In the belief that it is disappointing to admire a tree and not to be able to obtain a specimen of it, catalogs of nurseries supplying plants to the arboretum will be kept for reference. Nurserymen wishing to participate in the project should contact the arboretum before sending plants, however, in order to avoid duplication of plants.

THE Chadwick Nursery, on Route 3, Box 532, North Ogden, Utah, has been reestablished by Carl L. Chadwick, who formerly operated the nursery before serving in the army.

WILLIAM H. HUFF, 513 Lincoln avenue, northwest, Canton, O., has discontinued selling nursery stock for the present, but plans to resume his work in the future.

RARE and UNUSUAL GRAFTED MATERIAL from HILL TOP NURSERIES

	Per 100	Per 1000
River's Purple Beech	\$0.50	\$0.45
Pyramidal Carpinus	.35	..
Viburnum Burkwoodi	.35	..
Red Japanese Maple	.55	.50
Juniperus Burki	.55	.50
Juniperus Canadensis	.55	.50
Juniperus V. Dundee	.55	.50
Juniperus Keteleeri	.55	.50
Juniperus Columnaris, blue	.55	.50
Juniperus Globosa	.55	.50
Chamaecyparis Triomphe		

de Boskoop .45 .40

(From 2 1/4 and 2 1/2-in. rose pots.)

Ask for our complete lists of Lining-out Stock and Finished Stock just off the press.

BURTON'S HILL TOP NURSERIES
CASSTOWN, OHIO

BOSTON IVY

Extra-Heavy

Per 100 Per 1000

3-yr., 2 to 3 ft. \$30.00 \$250.00

2-yr., 18 to 24 ins. 23.00 170.00

2-yr., 12 to 18 ins. 15.00 150.00

DUGAN NURSERIES

PERRY, OHIO

1887

1948

WE OFFER FOR 1948

our usual line of

SHRUBS EVERGREENS
FOREST AND SHADE TREES
VINES AND CREEPERS

Trade List mailed on request.

FOREST NURSERY CO., INC.

J. R. Boyd, Pres. McMinnville, Tenn.

TAXUS LINING-OUT STOCK

1 and 2-year pots.

Many varieties.

Priced to Sell.

Write for list.

WYOMING NURSERIES

C. E. Kern
Cincinnati 15, O.

Rhododendron Maximum
Laurel (Kalmia Latifolia)
Hemlock (Tsuga Canadensis)

Collected stock

Price list on request.

J. RICHARD BARRY
White Haven, Pa.

Coming Events

MEETING CALENDAR.

April 18 to 20, Florida Association of Nurserymen, Soreno hotel, St. Petersburg.

May 20 to 22, Western Chapter of the National Shade Tree Conference, Santa Barbara, Cal.

June 20 to 22, Mississippi Florists' and Nurserymen's Association, Vicksburg.

June 21 and 22, National Mail Order Nurserymen's Association, Sherman hotel, Chicago, Ill.

FLORIDA DATES.

The Florida Association of Nurserymen will hold its convention April 18 to 20 at the Soreno hotel, St. Petersburg, in conjunction with the Florida State Florists' Association, according to C. Leslie Whipp, secretary.

PLANT BOARD MEETS.

The twenty-fourth annual meeting of the Central Plant Board will be held March 23 and 24 at the Hotel Pere Marquette, Peoria, Ill. Following the meeting of the plant regulatory officials, the annual meeting of the North Central States State Apiarists will be held.

BLONDES CHANGE COLOR FROM TAR OIL SPRAYS.

Blondes cannot take it when it comes to operating tar oil fruit tree sprays, for according to a recent item in the Chicago Tribune, the phenol acid in the spray turns their skins bright red and causes blisters. Brunettes, on the other hand, are little affected.

Orchardists in Herefordshire, England, recently employed girls from Britain's women's land army, and although they worked in rubber caps and masks, exposing only their cheeks, eyes and noses, the protection was not sufficient to prevent the blondes from changing color.

C. Savidge, county horticultural adviser, visited a London skin specialist and returned laden with jars of skin cream which he handed out free of charge to the blondes as an antidote against the spray, but nothing stopped the blondes from developing a red skin and blisters. Now the rule is brunettes only when trees have to be sprayed.

THE Knollwood Nurseries have been started by Joel V. and Josephine Bolden at 252 Tarrytown road, Elmsford, N. Y.

FRUIT TREES

Well grown, graded, with an extra-nice root system. Trees in good condition. Almost all of this stock is in storage. Can ship promptly.

	11/16-	9/16-	7/16-	5/16-	2 to 3 ft.	18 to 24 ins.	12 to 18 ins.
PEACH	in.	in.	in.	in.			
Halehaven	900	1200	1800	800	400	130	...
J. H. Hale	230	300	70	10	20	20	...
Late Elberta	200	270	500	130	...	...	...
Elberta	300	...	900	300	...	87	...
G. Jubilee	200	700	800	270	81	26	...
Redhaven	...	...	500	...	...	50	...

	11/16-	9/16-	7/16-	5/16-	2 to 3 ft.	18 to 24 ins.	12 to 18 ins.
MONTMORENCY CHERRIES,	in.	in.	in.	in.			
1-yr.	...	...	800	1800	120	2500	1700

	11/16-	9/16-	7/16-	5/16-	2 to 3 ft.	18 to 24 ins.	12 to 18 ins.
STANDARD PEAR, 2-yr.	in.	in.	in.	in.			
Bartlett	150	800	2500	1100	400	500	...
Kieffer	100	200	325	125	100	...	...

	11/16-	9/16-	7/16-	5/16-	2 to 3 ft.	18 to 24 ins.	12 to 18 ins.
APPLE, 2-yr.	in.	in.	in.	in.			
D. R. Delicious	45	2000	200	40	30	...	...
Jonathan	...	230	50	...	30	...	...

	11/16-	9/16-	7/16-	5/16-	2 to 3 ft.	18 to 24 ins.	12 to 18 ins.
CHINESE APRICOT on Peach roots	in.	in.	in.	in.			
Chinese	15	160	462	150	123	...	...
168 Amur River North Privet, 10 br. and up, 3 to 4 ft.	...	...	...	...	...	...	...
320 Amur River North Privet, 10 br. and up, 2 to 3 ft.	...	...	...	...	...	...	...
40 Amur River North Privet, 10 br. and up, 18 to 24 ins.	...	...	...	...	...	...	...
800 Amur River North Privet, 5 to 10 br., 2 to 3 ft.	...	...	...	...	...	...	...
170 Amur River North Privet, 5 to 10 br., 18 to 24 ins.	...	...	...	...	...	...	...

Send us varieties, grades and number wanted for special quotations.

MICHIGAN FRUIT GROWERS NURSERIES

1500 U. S. 12.

TEL. 6914

BENTON HARBOR, MICH.

SALE of CAMELLIA LINERS

One-year, bed-grown plants with good root systems. They are 4 to 8 inches tall and will make salable plants by next season.

Prof. Sargent, Ellen McKinsey, Duchess de Rohm, His Majesty, Crystal Springs Pink, Sarah Frost, Homeville Red, Madam Kurtz and Tricolor, \$25.00 per 100.

One group, mixed Camellias, 4 to 8 ins., \$20.00 per 100.

FAIRCHILD CAMELLIA GARDEN
MONROE, LA.

T. G. OWEN & SON, Inc.

P. O. Box 946 Columbus, Miss.

Nurserymen

Florists

WHOLESALE

(See our classified ad in this issue.)

COTTONWOOD SEEDLINGS

	Per 1000
150,000 12 to 18 ins.	\$ 9.00
100,000 18 to 24 ins.	11.00
100,000 2 to 3 ft.	14.00

KANSAS EVERGREEN NURSERIES
MANHATTAN, KAN.

WHOLESALE NURSERY STOCK

Cushion Chrysanthemums, No. 1 rooted div.

General Line of Small Fruit Plants

Lining-out Evergreens

Amur River North Privet Hedge

O.K. NURSERY

R. R. 2 BUCHANAN, MICH.

500,000

Hardy Mums—Cushion Mums
Hardy English

CHRYSA nthemums
NEW

Red Cushion Papoose

Field clumps, field divisions, rooted cuttings and 2-inch pots.

Write for quotations.

ELKHART NURSERY CO.

R. R. 5 ELKHART 1, IND.

VINCA MINOR

Evergreen ground cover.

Heavy plants.

\$75.00 per 1000.

(\$50 at 1000 rate.)

NEWPORT NURSERY CO.
NEWPORT, MICH.

WE QUOTE ALL GRADES OF APPLE, CHERRY, PLUM, PEACH and APRICOT.

Also

APPLE and PEAR SEEDLINGS

Write for special prices.

L. R. TAYLOR & SONS

Topeka, Kan.

Phone: 35009

Phone: 35019

SWEET CHERRIES and PEACHES CHERRIES, Two-Year-Old and One-Year Whips

Our regular line is fairly complete on all Fruit and Ornamental stock. We will gladly quote special prices at any time. Real bargains on large quantities. Order at once and avoid trouble in covering later.

ILGENFRITZ NURSERIES, Inc.

The Monroe Nursery
Get the Best

Monroe, Mich.
Buy Ilgenfritz

COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade
Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.
Onarga, Ill.

SHADE TREES, FLOWERING SHRUBS, VINES and EVERGREENS

Lining-out Stock

Write for wholesale
price list.

SCRUGGS NURSERY
Route 7 McMinnville, Tenn.

WEeping WILLOWS

BABYLONICA and WISCONSIN,
Per 100
3 to 4 ft. \$10.00
4 to 5 ft. 15.00

ILEX OPACA (American Holly), in
sizes 3 to 6, 6 to 9 and 9 to 12 ins.

Write for free sample and prices.

O. H. PERRY NURSERY CO.
Box 545 McMinnville, Tenn.

EVERGREEN SEEDLINGS

(Collected) Per 1000

Ilex opaca, 4 to 6 ins. \$10.00
6 to 12 ins. 15.00
Kalmia latifolia, 4 to 6 ins. 10.00
6 to 12 ins. 15.00
12 to 18 ins. 30.00
Tsuga canadensis (Hemlock),
4 to 6 ins. 10.00
6 to 12 ins. 15.00
12 to 18 ins. 30.00

Write for special prices on lots of
5000 and up.

NOLERIDGE NURSERIES
P. O. Box 28 McMinnville, Tenn.

LINING-OUT ROSES

Budded, 2-yr., field-grown. They will
make fine plants. Priced right. Send
for list and prices today.

OZARKS PLANT FARMS, INC.
ROUTE 3 SPRINGFIELD, MO.

PLANT PATENTS.

The following plant patents were
issued recently, according to Rumm-
ler, Rummler & Snow, Chicago
patent lawyers:

No. 773. Avocado tree. Lawrence W. Sher-
wood, Fullerton, Cal. A new and distinct
variety of avocado tree of the Mexican type,
distinguished as to novelty by its consistently
prolific production of high-quality fruit each
year; its early maturity; its early fall ripen-
ing season; its hardiness; its long, narrow
leaves; the protected position of its fruit on
the tree, and its fruit characterized by bright
purple color of the skin; convenient, market-
able size; skin thick enough to protect fruit
well in shipping; mild, rich, buttery flesh,
with high oil content, and proportionately
small seed, with pointed apex, which together
with the long neck, results in a high pro-
portion of flesh to the total weight.

No. 774. Rose plant. Charles Ketten, Lux-
emburg; Marguerite Ketten, administratrix
of Charles Ketten, deceased, assignor to the
Conard-Pyle Co., West Grove, Pa. A new
and distinct variety of rose plant of the class
of hybrid teas, characterized as to novelty
by the color combination and size of its
flowers, length of bud, strength of stem
and good vegetative habit.

No. 775. Rose plant. Charles Mallerin,
Varces, France, assignor to Jackson & Per-
kins Co., Newark, N. Y. A new and distinct
variety of rose plant, characterized as to
novelty by its vigorous, tall and open growth;
the yellow color of its blooms; the large-size,
symmetrical flowers unfolding perfectly to
almost flat shape when fully open and com-
prising petals of large numbers, and the
exceptional continuity of the blooms.

No. 776. Viburnum hybrid plant. Albert
Burkwood, Rotherfield, England, assignor to
John J. Grullemans, A. new and distinct
variety of viburnum hybrid plant, character-
ized particularly by its extreme hardiness;
the exceptional strength of the main stalk or
trunk; its free-blooming characteristics; its
exceptionally large heads of white flowers;
its sweet and lasting fragrance, and its rug-
gedness, which makes it easy to grow in
practically any exposure under any of the
usual garden conditions.

No. 777. Rose plant. Walter E. Johnson,
Reading, Mass. A new and distinct variety of
hybrid tea rose plant, characterized particu-
larly by its vigorous growth; sturdy stems;
distinctly shaped foliage; free-breaking
habit, which results in prolific flower produc-
tion, and fragrant, fine-textured flowers, hav-
ing distinctive form and coloring, the latter
being predominantly greenish-pink.

No. 778. Rose plant. N. Grillo, Middale,
Conn. A new and distinct variety of hybrid
tea rose plant, characterized particularly by
its free-blooming habit and its large flower
of heavy substance; novel form, and distinc-
tive dark red color, with velvety sheen and
brilliance.

No. 779. Raspberry plant. Lawrence Mar-
ston Toms, Nevada, assignor to Inter-
State Nurseries, Hamburg, Ia. A new and
distinct variety of raspberry plant, character-
ized as to novelty by the restricted growth
of the canes; the habit of such canes of pro-
ducing unusually long fruiting stems through-
out the entire length thereof; hardiness and
extreme resistance of the plant to disease,
and prolific bearing of large berries of fine
quality and bright red color, becoming darker
when overripe, over a long period of time.

No. 780. Strawberry plant. Matthew James
Johnson, Thornhill, Ont., Canada, assignor to
the R. M. Kellogg Co., Three Rivers, Mich.
A new and distinct variety of strawberry
plant, characterized as to novelty by its vig-
orous growth, stronger plant, the large size
and blunt conical shape of its berries and the
darker red color and palatably sweet and
mildly aromatic flavor of the berries.

No. 781. Rose plant. Marguerite Denoyel,
Veauville, Lyon, France, assignor to Jack-
son & Perkins Co., Newark, N. Y. A new
and distinct variety of rose plant, character-
ized as to novelty by its habit of rugged
upright growth, the color and abundance of
its leathery foliage closely spaced on the
stems and the large size and color of the
individual flowers, which tend uniformly to
lighten from begonia-pink to rose doree in a
manner unusual among pink roses.

No. 782. Grapevine. Chester A. Sanderson,
Glendale, Ariz. A new and distinct variety
of grapevine, characterized dominantly as to
novelty by its outstanding habit of vigorous
growth and hardiness; color of and mild,
sweet flavor of its berries; great productivity,
and form and abundance of its foliage and
fruit clusters.

PAUL E. LAVER, formerly at
1318 East Lake road, Erie, Pa., is
now located on Route 1, Grubb road,
Erie.

For Lining-out and Finished Nursery
Stock refer to our ad in the February
15 issue.

FAIRVIEW NURSERIES, Inc.

Day and night phone: Anthony 6175
R.F.D. 11 Fort Wayne 8, Ind.

SPIRAEAS.

[Concluded from page 12.]

height of even one foot. Its toothed leaves and white flowers of June make it a worth-while plant for the specialist who goes in for dwarf and slow-growing wood plants.

Those who have roadsides or wild meadows to plant could turn to such spiraeas as *S. billardi* or the native steeplebush, *S. tomentosa*. Years ago, these plants used to be offered by nurseries for home garden planting. They were offered but seldom purchased, for the sound reason that these erect-branched, summer-flowering shrubs have little real usefulness. Even for the roadside developer, a better choice would be *Spiraea latifolia* of rocky pastures. This coarse-foliaged, brown-twigged shrub grows to a height of two to five feet and bears white flowers in open spikes in late June.

Another shrub which appeared on older nursery lists is *Physocarpus opulifolius*, the ninebark. This rough, 10-foot plant, a close relative of the spiraeas, was often planted in the form of a yellow-leaved variety. As seen in the wild, the ninebark has its place as part of the native scene, but for garden purposes, it adds too little and takes up too much room to justify planting. This is not quite true of the mountain ninebark, *Physocarpus monogynus*, which is a 3-foot American shrub of neat habit. In aspect it much resembles a currant bush. For a fair-size hedge which requires little or no pruning, it should work out all right.

The sorbarias, or false spiraeas, are also rather large plants for intimate garden planting. However, where there is enough room, they can prove of real background value. The hardest of them, the Ural false spiraea, or *Sorbaria sorbifolia*, is a coarse-growing but at the same time fine-textured, 6-foot shrub. It is a sucker-spreading plant, which when well suited, makes itself at home in a half wild area. Its compound leaves and large clusters of white flowers in June or July have real landscape value. The white blooms have been known to attract rose bugs from more highly regarded garden plants in bloom at the same time. The false spiraeas are all shade-tolerant to a high degree. For a taller species with no less garden value, but of somewhat less hardiness, there is the Kashmir false spiraea, *Sorbaria aitchisonii*.

HENRY B. CHASE, Chase Nursery Co., Chase, Ala., is back at his desk after a 2-month vacation in California.

WESTERN-GROWN

FRUIT TREE SEEDLINGS

All of our Seedlings are grown in Washington and Oregon where weather conditions are ideal. They are dug only when fully ripened and are carefully graded by experienced graders.

	Per 100	Per 1000
APPLE SEEDLINGS , western-grown		
No. 2, 2/16 to 3/16-in., branched	\$2.10	\$18.00
No. 3, about 2/16-in.	1.40	12.00
CHERRY, MAHALEB , western-grown		
1/4-in. and up	3.20	28.00
No. 1, 3/16 to 1/4-in.	3.00	26.00
No. 2, 2/16 to 3/16-in.	2.40	20.00
No. 3, about 2/16-in.	1.80	15.00
CHERRY, MAZZARD , western-grown		
1/4-in. and up	3.20	28.00
No. 1, 3/16 to 1/4-in.	3.00	26.00
No. 2, 2/16 to 3/16-in.	2.40	20.00
No. 3, about 2/16-in.	1.80	15.00
PEAR, BARTLETT , western-grown		
No. 2, 2/16 to 3/16-in., branched	2.40	20.00
No. 2, 2/16 to 3/16-in., straight	2.40	20.00
No. 3, about 2/16-in.	1.70	14.00
PLUM, MYROBALAN , western-grown		
1/4-in. and up	3.20	28.00
No. 1, 3/16 to 1/4-in.	3.00	26.00
No. 2, 2/16 to 3/16-in.	2.40	20.00
No. 3, about 2/16-in.	1.80	15.00

Write for special prices on quantity lots.

ORDER NOW

LAKE'S SHENANDOAH NURSERIES
SHENANDOAH, IOWA

GRAPEVINES, CURRANTS, GOOSEBERRIES and BERRY PLANTS

Can also supply Currant
lineouts and cuttings.

Known to the Wholesale Trade
Small Fruit Plants of Superior
Quality Since 1890.

F. E. SCHIFFERLI & SON NURSERIES
Fredonia, N. Y.

BLUEBERRY ROOTED CUTTINGS

We offer an exceptionally fine lot of
rooted cuttings for shipment this Spring.
Selected and graded to insure your satisfaction.

Prices sent at your request.

H. B. SCAMMELL & SON
Blueberry Nurserymen
TOMS RIVER, N. J.
Growers of Blueberries since 1920

WELLER'S PERENNIALS
With That Wonderful Root System
Headquarters for
HARDY MUMS AND PHLOX.
Ask for our Perennial Catalog
WELLER NURSERIES CO., Inc.
Leading Perennial Growers
Holland, Mich.

SNEED NURSERY COMPANY

P. O. Box 798

Oklahoma City, Okla.

RED LAKE CURRANTS
RED RASPBERRIES
Hansen's BUSH CHERRY
PARADISE ASPARAGUS

**ANDREWS NURSERY
CO.**
FARIBAULT, MINN.

FROST-DODGING APPLE, Patent No. 722

A crop every year; indispensable,
especially in localities often hit by
late Spring frosts. Nurseries will not
go wrong in raising and selling
this new winter apple.

For details write to
MAX NURSERY
MINERAL, VA.



EVERGREENS

Growers of Quality Evergreens
Lining-out Stock a Specialty
Write for Trade List

EVERGREEN NURSERY CO.
Established 1884 : STURGEON BAY, WIS.



Wholesale growers of the best
Ornamental Evergreens,
Deciduous Trees,
Shrubs and Roses
Write for our current trade list.

THE KALLAY BROTHERS CO.
Painesville, Ohio



CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary
304 MITAU BUILDING SACRAMENTO 14, CALIF.

SUPERIOR CHAPTER PLANS. FOR STATE ARBOR DAY.

President Eugene R. Armstrong, Capital Nursery Co., Sacramento, called to order the monthly meeting of the Superior chapter of the California Association of Nurserymen, which was held February 18 at the Alhambra restaurant, Sacramento.

Thirty members and guests were present, and visitors introduced by President Armstrong included Mr. Maxwell and Mr. Thompson, Gordon Hill Nursery & Florist, Jackson; John A. Sketchley, safety engineer, State Compensation Insurance Fund, and Mrs. Louis Vistica, Louis Vistica Nursery, Live Oaks, who was present for the first time in several months.

D. C. Wiese, Donner Nursery, Sacramento, conducted a unique contest for the best camellia worn at the meeting. Mrs. Louis Vistica's camellia, Caprice, was judged the best, and President Armstrong received honorable mention for his camellia, Chandleri Elegans.

During a discussion of Arbor day activities, E. J. Merz, executive secretary of the California Association of Nurserymen, stated that this year's observance is the first official Arbor day in the state of California and that Governor Warren would issue a proclamation. Mr. Merz urged the members to take full advantage of this first Arbor day, and a planning committee was appointed by President Armstrong.

T. A. Sand, Del Rancho Fortuna, McFarland, president of the California Association of Nurserymen, delivered a brief address on the advertising, merchandising and sales appeal of nursery stock. The members considered his talk extremely interesting and stimulating.

John Sketchley, safety engineer, State Compensation Insurance Fund, was guest speaker for the evening and discussed the causes and prevention of accidents. He emphasized as the primary causes of accidents poor housekeeping, poor wearing apparel, poor workmanship, poor instruction and instructors, unsafe practices on the part of both management and labor and physically unfit workmen.

Louis LeValley, Sec'y.

OREGON A. A. N. CHAPTER ELECTS DELEGATES.

Members of the Oregon chapter of the American Association of Nurserymen met February 18 at the office of the Portland Wholesale Nursery Co., Portland.

Delegates elected to represent the chapter for 2-year terms are as follows: Avery H. Steinmetz, Portland Wholesale Nursery Co., Portland; Fred J. Borsch, Maplewood, and Henry Hausch, Roseway Nursery, Portland. Alternate delegates for two years are Samuel J. Rich, Rich & Sons Nursery, Hillsboro; Martin Holmason, Pacific Coast Nursery, Portland, and Mrs. N. Van Hevelingen, Portland. Present delegates, who will serve for one year more, are Wayne Melott, Carlton Nursery Co., Forest Grove, and F. A. Doerfler, F. A. Doerfler & Sons, Salem.

A report on the gift certificate advertising campaign was made by

ILGENFRITZ NURSERIES, INC.

The Monroe Nursery Monroe, Mich.

MICHIGAN-GROWN PEACH TREES

	Each	Per 100
3/4-in.		\$0.65
1 1/16-in. ....		.55
9/16-in. ....		.45
7/16-in. ....		.35
5/16-in. ....		.20

A good assortment of most standard varieties of Trees, Shrubs, Roses, Evergreens and Fruits. Specials on Willows, Mt. Ash, Pfizer Juniper, Taxus and many others. Send for prices and order early.

GET THE BEST

BUY ILGENFRITZ

CONCORD GRAPE PLANTS FINEST QUALITY No. 1

Large stock of honestly graded, State-inspected Concord Grape Plants at money-saving prices. Also a limited quantity of No. 2 Concord Grape Plants. Here is your opportunity to make some real money. Write today for Stahelin's attractive prices.

STAHELIN'S NURSERY
Bridgman, Mich.

Wayne Melott, Carlton Nursery Co., Forest Grove, chairman of the committee. He read letters which favored and opposed the continuation of the program. Twenty-one favored continuing the program on a limited scale, while seven were against continuing any sort of program. Upon a motion made by Melvin Moeller, it was voted that the members in attendance go on record as being in favor of the continuance of a limited gift advertising program. The details were left up to the committee, which will work out an additional advertising campaign and submit it to the entire membership of the Oregon chapter of the A. A. N. for approval.

E. Dering, Sec'y.

SEATTLE ROSE GARDENS.

To meet the need for a more complete testing ground at Seattle, Wash., for the purpose of exhibiting the newest varieties of roses, Roland Koepf, landscape architect for the Seattle park department, recently re-

SURPLUS NURSERY STOCK

APPLE, 1-YEAR, ALL WHIPS

	Per 10	Per 100
4 to 5 ft.	\$2.50	\$20.00
3 to 4 ft.	2.00	17.50
2 to 3 ft.	1.50	12.00

4 to 5 ft. 3 to 4 ft. 2 to 3 ft.

Grimes Golden ..	70	100
Lodi	47	100
Early Harvest ..	20	40
Red Delicious ..	50	70
Red Winesap ..	130	120
Winesap	30	20
Yates	50	110
Yellow Delicious	160	120
Yellow Trans. ..	10	80

FLOWERING CRABS

Aldenhamsis	60	70
Eleyi	80	60

FLOWERING PEACH

Red	3 to 4 ft. 2 to 3 ft. *1 1/2 to 2 ft.	
(Double) 210	200	160

White		
(Double) ..	20	80

*1 1/2 to 2 ft. Flowering Peach, \$10.00 per 100.

No packing charge.

ATHENS NURSERY CO.
ATHENS, ALA.

BEGINNING IN THE NURSERY BUSINESS

By John J. Pinney

Valuable suggestions and counsel for nurserymen of limited experience. Complete series of articles reprinted from issues of American Nurseryman.

50 cents per copy.

Special rates on quantity lots.

AMERICAN NURSERYMAN
343 S. Dearborn St., Chicago 4, Ill.

designed the municipal rose gardens at Woodland park, Seattle, since they were not considered representative of what could be accomplished in the Puget Sound climate.

Actual construction work, under the direction of Adrian Gallaher, was begun in 1947 and will be completed this spring. The new gardens, which have been designated as an official test garden by All-America Rose Selections, Inc., will include all the newest patented roses and will display more than 1,500 different varieties.

As a community service, the Strander Evergreen Nurseries, Seattle, have donated to the park department over \$2,000 worth of specimen coniferous and broad-leaved evergreens. John S. Strander, manager of the nurseries and a pioneer Seattle nurseryman, believes that a garden of this perspective should be developed into one of the show places of the city. John B. Strander, landscape architect, helped with the selection of the individual trees.

According to Mr. Gallaher, who is a national rose judge, the evergreens will serve to accent the rose beds and will also provide the necessary background landscape material. Two of the shrubs, a matched pair of Wissell cypresses over eighteen feet tall, valued at \$300 each, will be used to flank the main entrance. Other conifers, including a number of Cedrus deodora and Golden Lawson cypresses, will be used in border plantings and as axis focal points. The broad-leaved evergreens will be planted in other parts of the park.

NEW TACOMA SEED STORE.

Poole's Seed & Nursery Co., a distinctive new store at 3518 Sixth avenue, Tacoma, Wash., was featured in a recent issue of Seed World magazine. The name Poole has been associated with the seed and nursery business in the northwest since 1889, and it was in the family tradition that Arthur Poole opened this new firm, with an adjoining nursery lot, which offers a wide assortment of lines to appeal to any homeowner.

An unusual feature of the store is the "Copper Corner," a display of house plants in novelty copper containers arranged on whatnot shelves. The plants are shown to advantage against a wall of knotty pine finish. The corner has done much to attract customers, especially apartment house dwellers who have no yards and would otherwise have no interest in the store. About ten per cent of the total sales are made from the "Copper Corner."

SPECIAL OFFERS—PEACH TREES

The Trees offered are grown from our own buds from our producing commercial orchards and are intended for sale to southern Illinois orchardists. Adverse circumstances to orchardists in this region have curtailed planting this season to such a degree that these sacrifice offers must be made.

2-yr. PEACH TREES	Each	Total
1520 Reg. ELBERTA, 7/16-in.	\$.25	\$380.00
1760 Reg. ELBERTA, 9/16-in.	.30	528.00
730 Reg. ELBERTA, 11/16-in.	.35	255.50
160 HALEHAVEN, 7/16-in.	.25	40.00
170 HALEHAVEN, 9/16-in.	.30	51.00
80 HALEHAVEN, 11/16-in.	.35	28.00

4420 Total 2-yr. Peach Trees for.....\$1,302.50

SPECIAL OFFER—Free packing and delivery in our truck, up to 500 miles, to purchasers of entire lot. Or, \$1,200.00 cash buys the lot; you come for it.

June-Budded PEACH TREES	Each	Total
5000 Reg. ELBERTA, 18 to 24 ins.	\$.12½	\$ 625.00
5000 Reg. ELBERTA, 24 to 30 ins.	.15	750.00
280 GAGE ELBERTA, 12 to 18 ins.	.10	28.00
320 GAGE ELBERTA, 18 to 24 ins.	.12½	40.00
140 GAGE ELBERTA, 24 to 30 ins.	.15	21.00
400 Early ELBERTA, 18 to 24 ins.	.12½	50.00
960 Early ELBERTA, 24 to 30 ins.	.15	144.00
500 Early ELBERTA, 30 to 36 ins.	.17½	87.50
740 HALEHAVEN, 24 to 30 ins.	.15	111.00
900 HALEHAVEN, 30 to 36 ins.	.17½	157.50

14,260 June-budded Peach Trees for.....\$2,017.00

SPECIAL OFFER—Free packing and delivery in our truck, up to 500 miles, to purchaser of entire lot. Or, \$1,850.00 cash buys the lot; you come for it.

H. B. HARTLINE FARM

Orchids — Nursery — Flowers
MAKANDA, ILL.

Mention The American Nurseryman when you write.

NOTICE!!

We still have a few thousand, 1 and 2-year-old Cherry, Pear, Plum, Apricot, Apple and Peach in leading varieties.

10,000 Amur River North Privet, 18 to 24 ins., 7c each; 2 to 3 ft., 9c each; 3 to 4 ft., 14c each.

Sweet Gum, Chinese Elm and American Ash, 2-in., 3-in. and 4-in. caliper. GRAFTS—Apple, Pear, Quince and Flowering Crab and SCION WOOD.

EGYPTIAN NURSERY & LANDSCAPE CO.
PHONE 64 FARINA, ILL.

CERTIFIED AND GUARANTEED

direct from grower to you
BLUEBERRY NURSERY STOCK

Scions, Rooted Cuttings and 1 to 4-year-old plants.

Let us quote you our low prices.

We will deliver any order of 10,000 or more plants direct to you. (Radius of 1,000 miles.)

G. ALLOWAY & SON
Marlton Pike and Webster Ave.
Merchantville, N. J.

Concord and Niagara Grapevines, heavy, 1-yr.

Peach Trees, up to 6 to 7 ft.

Berberis Thunbergi, 2-yr. trans.

Write for quotations.

WILLOWBEND NURSERY
Davis Rd. Perry, Ohio

CERTIFIED

BLUEBERRY PLANTS

1-year Rooted Cuttings, 2 and 3-year Nursery Plants, all varieties; propagated from stock taken from our own productive farms. Guaranteed True to Name. SEND FOR RIGHT WHOLESALE PRICES.

GALLETTA BROTHERS'
BLUEBERRY FARMS
Hammon, New Jersey

ROSEBUSHES

Write for our variety list and prices.
Satisfaction guaranteed.

M. OLIVER FLOWER FARMS
P. O. Box 86 Tyler, Texas

Grapevines, Currant Roots, Currant Cuttings and Berry Plants.

Small Fruit Specialists.

WEST HILL NURSERIES
Fredonia, N. Y. Since 1875

Old English BOXWOOD

(Wholesale Only)

All slow-grown dense specimens. Red clay soil. Priced by height and spread. 18x12 ins. to 24x22 ins. in unlimited quantities. Also large specimens up to 5 ft. Write for price list.

BOXWOOD GARDENS
Mrs. R. P. Rorer High Point, N. C.

AMUR RIVER NORTH PRIVET CUTTINGS

Genuine Amur River North Privet cuttings, wood cut from proven "Mother Blocks." All cuttings hand sorted. \$2.25 per 1000 in lots of 5000 or more. Cash with order, packing free.

ALTA VISTA NURSERIES, Davenport, Iowa

WE CAN SUPPLY

CHERRIES, 1-yr., 9/16-in., 11/16-in.
Montmorency, Early Richmond

PEAR, 7/16-in., 5/16-in.
Bartlett, Lincoln, Coreless

APPLE, 11/16-in., 9/16-in., 7/16-in.
Anoka, Black Ben, Dark Red Delicious,
Grimes, Dark Red Jonathan, Lodi,
Turley, Red Willow Twig, Yellow De-
licious, York, Virginia Crab.

PEACH, all grades.
Alton, Belle of Georgia, Champion,
Elberta, Early Elberta, Fair's Beauty,
Golden Jubilee, Halehaven, Red-
haven, Indian Blood, J. H. Hale.

PLUM, 9/16-in., 7/16-in., 5/16-in.
America, Burbank, Munson, Sapa,
Waneta.

APRICOT and NECTARINE

Also wide variety of specimen shrubs.

PRICED RIGHT

NEOSHO NURSERIES COMPANY
315 WEST NEOSHO, MO.

GRAPE ROOTS

Grown on gravel land.
(There are none better.)

Catawba, Delaware, Worden,
Niagara, Caco, Brighton, Fredonia,
Agawam, Moore's Early and Con-
cord.

Send us your list of wants for
immediate quotations.

CHAMPION NURSERIES
Perry, O.

	Per 1000
Latham Raspberries, 1/2-in. and up.....	\$ 60.00
Latham Raspberries, No. 1, 3/16-in.....	48.00
Latham Raspberries, medium....	32.00
Chief Raspberries, No. 1, 3/16-in.....	48.00
MacDonald Rhubarb, No. 1....	200.00
Chipman's Canada Red Rhubarb, No. 1, div.....	280.00

SUMMIT NURSERIES
STILLWATER, MINN.

FRUIT TREES

One-year-old Montmorency, Fellen-
berg and Stanley Prune.
Excellent trees. Reasonably priced.

EDWARD BACON & SON
Dansville, N. Y.

We wish to purchase...

Evergreens, Fruit Trees,
Shrubs, etc.

Send your surplus list to
THE PONTIAC NURSERY CO., Romeo, Mich.

CALIFORNIA NOTES.

The Northern California Camellia Society held its third annual flower show February 28 and 29 at the Twentieth Century Club, Berkeley. The show is one of the largest exhibits of camellias in the state.

The Leonard Coates Nurseries, Inc., San Jose, operated by Ray D. Hartman, have been completely re-modeled. The lath house, which covers more than an acre, has been rebuilt and the roof raised to between ten and fifteen feet. Posts are of angle iron set in concrete bases, and the structure is painted with aluminum paint. The walks have been paved, and plants have been set in shavings and moss held in place with an attractive brick wall. Tool sheds have been rebuilt and space added for storing tools and equipment. A garage with a mechanic on duty all day expedites repairs of company equipment. New bins have been built for storing soil, manures and peats. With the exception of two small houses, the renovation has been completed.

Drought in the state has been extremely serious and costly this year. However, despite the great interest in artificial rain making, scientists believe that it will be a long time before such a process may be used commercially.

The Sacramento Camellia Society held its annual flower show March 6 and 7.

The G. L. Nursery has added a retail flower store to its business at Willows.

The newest mechanical device for almond growers in the state is a suction harvester which will suck the nuts off the ground. At an estimated cost of \$3,500 for the machine, the grower would expend \$15 per acre to harvest his crops. This cost includes labor, operating expenses, repairs, interest and a 5-year amortization on the machine.

Unseasonably warm weather has caused flowering shrubs to bloom as much as six weeks early this year. Fruit growers fear that the early blooming of fruit trees will be disastrous if there are late frosts in the fruit sections.

E. A. Sandhagen has established a wholesale florists' and nursery shipping business at San Mateo. He will operate under the name of Sandy's Wholesale Florist & Nursery.

Dr. R. C. Linden, plant pathologist, Wenatchee, Wash., has developed a means of determining whether little cherry exists in cherry budwood by a chemical analysis of the leaves. He believes that similar studies may yield

NURSEYMEN and DEALERS

2-yr. Apple Trees, 15c and up. 1-yr. Peach, 15c and up. Transplanted Chinese Elm, 10c and up. Good Shrubbery, 10c and up. 2-yr. Grape, 5c and up. Red-leaved Barberry, Privet and Berry Plants. Also good Bermuda Grass Roots in large quantity.

Really nice, collected Native Red Cedars; beautiful tops and good roots, at following low prices:

5 to 10 ins., \$20.00 per 1000; 10 to 15 ins., \$35.00 per 1000; 15 to 24 ins., \$7.50 per 100; 2 to 3 ft., \$12.50 per 100; 3 to 4 ft., \$17.50 per 100.

Please rush your order with check as soon as possible. We will ship until May 10. We had to send back many orders the past two seasons because we did not have time to fill them.

Write for low prices.

ROLLERS WHOLESALE NURSERY
ROGERS, ARK.

TO THE TRADE

We offer heavy, 1 and 2-year Apple and Peach, especially heavy Apricot, Plum, Quince and June-bud Peach.

COMMERCIAL NURSERY CO.
Decherd, Tenn.

FRUIT TREES

HARRISON BROTHERS NURSERIES

G. Hale Harrison, General Manager
BERLIN, MARYLAND

CULTIVATED BLUEBERRY PLANTS

Certified stunt-free. Guaranteed true to name and age. Quality, 2-yr. plants; well branched, with fruit buds.
6 to 12 ins., \$30.00 per 100; 12 to 15 ins., \$8.40 per doz., \$55.00 per 100; 15 to 18 ins., \$9.00 per doz., \$60.00 per 100; 18 to 24 ins., \$10.20 per doz., \$70.00 per 100. Descriptive folder.

JOSEPH G. O'NEILL & SON
P. O. Box 32-A MOORESTOWN, N. J.

FRUIT TREES

Apple, Peach, Pear, Plum and Cherry.

Write for price list.

GOLDEN EAGLE NURSERY
Golden Eagle, Ill.

information on virus diseases of budwood in apples and apricots. If this can be done on a commercial basis, it will be of great value in the production of certified trees.

A lack of water is held responsible for the almost complete cessation of retail nursery trade in Santa Barbara and Ventura counties. Home builders are prohibited from using water for garden uses.

Wholesale fruit tree producers on the west coast report that cling peaches, which are used by canneries, are selling well, but that there is almost no new commercial planting of freestone peaches being done.

The Frank A. Stead Co., a subdivision development firm, is starting a retail nursery in the Walnut creek area where the firm has built a number of medium-priced homes.

The new directory of nurserymen licensed by the state of California is now being distributed by the department of agriculture, Sacramento. All nurserymen listed in the directory will receive a free copy. Out-of-state nurserymen and others may secure a copy by writing the state department of agriculture, Sacramento.

The extension of existing regulations concerning pinto tags is being discussed by nurserymen and county commissioners. At present no decision has been reached in and between thirty-seven of the fifty-eight counties in the state. Some of the counties have so few nurseries that it is doubtful whether they will ever become interested. About ninety per cent of the shipping nurseries of the state have now been certified.

James Donnelly has taken over the nursery at Hale's department store, San Francisco, on a concession basis. No changes in the nursery department operations of the other Hale stores are reported.

The California Garden Supply Co., Belmont, operated by Charles Burr, has been appointed distributor in northern California for the Oregon Bulb Farms.

The Charles C. Navlet Co., San Jose, has built a new garden supply center.

Mrs. Gordon Wallace is now up and around after spending six months in bed recovering from a heart ailment. Her husband, Gordon Wallace, is with the Leonard Coates Nurseries, Inc., San Jose.

Clarence Perkins, Jackson & Perkins Co. of California, Pleasanton, reports that Mrs. Perkins has now recovered from her long illness. At a recent meeting of the Central California Nurserymen's Association, Mr. Perkins introduced his nephew, Major Perkins, who was en route to

SOUTHERN NURSERY & LANDSCAPE CO.

Established 1872
Winchester, Tenn.

Increase sales, handle first quality. Write for complete wholesale list of Fruit Trees, Evergreens, Shrubs, etc.

APPLES, 2-yr. Br.

1-in., 5 to 6 ft.	\$0.60
1 1/16-in., 5 to 6 ft.	.40
9/16-in., 4 to 5 ft.	.35
7/16-in., 3 to 4 ft.	.28

Dble. Red Delicious
Early Harvest
Grimes Golden
Jonathan
Lodi
Milton
McIntosh
Red Jonathan
Stayman
Winesap
Red Rome Beauty
Yellow Delicious
Yellow Transparent

5-N-1 APPLES

Well formed heads

1-in., 5 to 6 ft.	\$1.50
1 1/16-in., 5 to 6 ft.	1.25
9/16-in., 4 to 5 ft.	1.00
7/16-in., 3 to 4 ft.	.85

PEACHES, 1-yr.

1-in., 5 to 6 ft.	\$0.60
1 1/16-in., 5 to 6 ft.	.40
9/16-in., 4 to 5 ft.	.35
7/16-in., 3 to 4 ft.	.25
5/16-in., 2 to 3 ft.	.15

Belle of Georgia
Dixied
Dixigem
Elberta
Golden Jubilee
Halehaven
Redhaven
J. H. Hale
Sullivan's Early Elberta
Southland

JUNE-BUDDED PEACH

18 to 24 ins.	\$0.12
2 to 3 ft.	.15
3 to 4 ft.	.25

Dixied
Dixigem
Redhaven
Halehaven
Golden Jubilee
Sullivan's Early Elberta
Elberta
Shippers Late Red

Mention The American Nurseryman when you write.

SURPLUS

STRAWBERRY PLANTS

Dunlap, Blakemore, Streamliner
Everbearing and other varieties.

Write, wire or phone collect for special prices.

ANNA STRAWBERRY NURSERY

F. G. Anderson, Prop. Anna, Ill.
Phone 340, 299R

CHARLES SIZEMORE Traffic Manager

319 1/2 Georgia St., Louisiana, Mo.

Loss and damage claims against railroad and express companies collected.

Freight bills audited.

Past due notes and accounts collected.

Well known to the nurserymen of the country.

Reference: Bank of Louisiana.

WHITE SCUPPERNONG

1-year layers	Per 100 \$15.00
2-year, stake-grown	35.00
3-year, heavy branched	45.00

F.O.B. Nursery

STOVALL NURSERY
LEAKESVILLE, MISS.

GRAPE CUTTINGS

CONCORD and FREDONIA, \$4.00 per 1000, F.O.B. here. Tied with wire, 100 to bunch. Guaranteed true to name. Cut from our young, thrifty vineyard by experienced workmen.

IDEAL FRUIT FARM, Stilwell, Okla.

WE OFFER...

Our General Line of

SMALL FRUIT PLANTS

Let us quote on your requirements.

L. J. RAMBO'S WHOLESALE NURSERIES
Bridgman, Michigan

BOOKS

reviewed in this issue
and any others on
horticultural subjects
are obtainable through

AMERICAN NURSERYMAN

343 S. Dearborn St., Chicago 4, Ill.

Ask for circular of horticultural books.

PEACH TREES

Dormant, budded fine trees; Missouri-grown. Send for list and prices.

OZARKS PLANT FARMS, INC.
Route 3 Springfield, Mo.

RED RHUBARB

Chipman's Canada Red
\$25.00 per 100 divisions.

KEELER'S GARDENS
SIOUX FALLS, SO. DAK.



PROFIT PROVED *Lining Out Stock*

OVER 200 VARIETIES READY FOR SHIPMENT

These stocks were developed with the full realization that upon your rapid turnover, repeat sales and generous profits rest our success. That's why you can be sure they're tops. Minimum order, 25 of any one variety.

Well Rooted Stock in 2" Pots — 3 to 4" High

(PRICES QUOTED ARE PER HUNDRED)

Arbutus unedo.....	\$10.00
Citrus Meyer Lemon (dwarf).....	15.00
Gardenia Mystery.....	17.50
Hydrangea Revelation.....	15.00
Hypericum henryi.....	12.00
Philadelphus virginialis.....	15.00
Pittosporum eugenioides.....	10.00
Viburnum japonicum.....	12.00

ALL PRICES F.O.B. MONROVIA, CALIF.

WRITE FOR OUR COLOR ILLUSTRATED
WHOLESALE CATALOG



monrovia
Nursery Co.

DUARTE ROAD AT MYRTLE AVENUE
P. O. BOX. 196 MONROVIA, CALIFORNIA

IMMEDIATE SHIPMENT TO ANY PART OF THE COUNTRY

FAGUS SYLVATICA PENDULA

Ground-grafted, well filled specimens

	Per 10	Per 100
4 to 5 ft.....	\$25.00	\$225.00
5 to 6 ft.....	30.00	275.00

5 at 10 rate; 50 at 100 rate.
Cash with order, packing free.
Truck or express shipment only.

RICHARD P. RESSEL
MULINO, ORE.

DOUGLAS FIRS

9 to 12 ins., \$10.00 per 100,
\$75.00 per 1000. Carefully gathered.
Extra well packed.

COASTAL GARDENS Sheridan, Ore.

MAHONIA AQUIFOLIUM

1-yr., field-grown seedlings, row-run,
\$30.00 per 1000; \$4.00 per 100.

Liberal count. No packing charge if
check accompanies order.

MOUNT VERNON NURSERY
MOUNT VERNON, WASH.

NOTICE

Limited production makes it impossible
to book orders for new customers.

HOWARD ROSE COMPANY
Hemet, California

AMERICAN NURSERYMAN

his marine command in the Pacific area.

Gordon Courtright, East Bay Nursery, Berkeley, is advertising that his nursery will now be open seven days a week.

James H. Wilson, Peters & Wilson Nursery, Millbrae, is wearing a pin signifying that he has been a member of the local Lions' Club for ten years. He is also proud of the fact that the bowling team sponsored by his firm is leading the league. Mr. Wilson is one of the leading scorers in the league.

Fred Hammarstrom is a proud grandfather and is reporting the news to everyone calling at the West Coast Nursery, Palo Alto. The child's father, Don Hammarstrom, is a landscape architect at Palo Alto.

Arthur E. Navlet, Navlet's Oakland, Oakland, will be the distributor in northern California of Terra-Lite, produced by the Zonolite Co., Chicago, Ill.

Bert Edwards has resigned his position with the Pacific Coast Nurseries, Colma, and is now associated with the Mayne Tree Surgery Co., Burlingame.

The California Garden Clubs, Inc., is sponsoring a drive to send 2-pound packages of vegetable seeds to Europe. The packages are expected to produce five tons of vegetables.

Live citrus white fly was found on gardenia cuttings from Mississippi by Thomas E. McCloud, Orange county deputy agricultural commissioner.

L. R. Kueling, Kueling's Pavilion of Flowers & Nursery, has built a new flower and garden store and a new lath house at Gilroy.

The Hecker Pass Camellia Gardens, Gilroy, have been remodeled recently.

John Coulter has taken over the Pennington Camellia Nursery, San Carlos, on a lease. Noel Pennington will devote his time to the flower store, which is located several blocks from the nursery.

Walter B. Balch, Shell Oil Co., Burlingame, recently gave a series of talks to veterans in agricultural training in San Diego county. He discussed soil fumigation and soil fertilization.

W. B. B.

THE Westlake Nursery Co., West 117 Augusta street, Spokane, Wash., was sold last month to Mr. and Mrs. J. Lewis Ferec. Thomas E. Westlake, pioneer at Spokane who established one of the largest nurseries in the Pacific northwest and was sole owner and manager for more than forty years, will remain as manager of the firm for two more years; then he plans to retire.

PENNSYLVANIA CONFERENCE.

[Continued from page 9.]

Keeping the soil built up is always a problem for the city nursery, since the area is usually so restricted that continuous production is necessary. All possible ways of building up the soil must be followed and the addition of organic material and proper fertilization practiced.

In conclusion, Mr. Wissenbach advised nurserymen to read articles in garden magazines which feature new plants, so that they may keep abreast of the trends and anticipate the demands of the more discerning customers. In all cases good stock is essential.

A popular feature of the conference was the open forum on "Methods of Selling Landscape Jobs." A. O. Rasmussen, extension professor of ornamental horticulture, served as moderator. He called upon several nurserymen for contributions, among whom were Jesse Flory, LaBars Rhododendron Nursery, Stroudsburg; J. Franklin Styer, Styer's Nurseries, Concordville; Wilbur I. Nisley, Walter, Nisley & Walter, Inc., Harrisburg; John Guldemon, Susquehanna Gardens, Harrisburg; Harold G. Seyler, Farr Nursery Co., Weiser Park, and K. H. Van Cott, Van Cott Tree Service & Nursery, New Milford. Many others made contributions from the floor.

The system practiced by one nursery is to call upon the prospective client and discuss possibilities. No attempts to sell are made on the first call unless it is a small job. Plans are made, using tracing paper, with at least one tracing in color, with plant materials in green and the buildings in brown or some neutral color. No charge is made for the plans directly, but a service charge is included in the total estimate. A perspective drawing is not made, since it is believed that a true picture is hard to present. If the plan is made to show plants as they will look immediately after planting, it does not have any sales appeal, while if it is made to show the final appearance, the customer is usually disappointed in the first appearance. Accompanying the plan is an estimate of the cost, together with the conditions and restrictions of the sale and service. In making the estimate, an itemized price list is submitted. Labor and plant costs are given separately.

Some nurseries reported their preference for contracts which did not itemize the price of stock or the cost of labor. The job may be broken down into parts, such as the foundation planting or the garden in the rear, with the number of plants

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Send us your Want List for Prompt Quotations on FRUIT and NUT TREES

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Large hardy Breslau English Walnut seedlings; 3-year, once transplanted, \$1.50 each; by express, not postpaid. 600 Thomas Black Walnut seedlings, 1-yr. lining-out stock.

Will show you how to make a seed-sprouter, nearly automatic, for \$1.00.
E. RUSS, Halsey, Ore.

CHINESE ELM SEEDLINGS

	Spring dug.	Per 1000
500	5 to 6 ft.	\$90.00
2000	4 to 5 ft.	65.00
5000	3 to 4 ft.	45.00
10,000	2 to 3 ft.	25.00
9000	12 to 18 ins.	15.00
8000	6 to 12 ins.	8.00

Good straight stems, well graded and splendidly rooted.

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TOPPENISH, WASH.

PEAT MOSS

Finest Quality,
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specified and the contract price for each part. The contract is signed by both parties, and if a change is necessary, both parties sign the change. The latter procedure should not be neglected since unscrupulous individuals might take advantage of an unauthorized change. The general opinion was that whether the firm should use contracts or itemized lists depended upon the community and the general practices prevailing there.

When building contractors have erected units and ask for bids on planting jobs, it was felt that the nurseryman must proceed cautiously. Often the amount which will be spent per unit is so small that a first-class job cannot be done, and care must be taken that a reputation for cheap, junky planting does not become associated with the nursery organization. A new trend is for the builders to come to the nurseryman asking for plans with a guarantee for a certain amount to be spent per unit, the amount being as high as \$200 to \$250 per unit in some cases. The builders are beginning to realize the desirability of a good planting for selling the home.

It was pointed out that after having done a good planting job in a community, architects often ask the nurseryman to call upon the owners of new homes. The architects realize proper planting sets off the new home to a good advantage and improves their own reputation as well as the nurseryman's.

The use of pictures, colored slides or models of good planting jobs was considered to be of especial help in selling landscape jobs. However, the client must be informed that his home will not look like the picture immediately. In all landscape selling and planning it is important to discuss with the homeowners their likes and dislikes, so that these may be considered in making the final plans. The finished planting should represent some of the owner's individual characteristics.

[To be continued.]

MIDWEST TREE CONFERENCE.

[Continued from page 8.]

Three important diseases of elms were considered. A discussion of the symptoms was accompanied by slides. Dr. Tilford discussed the Dutch elm disease, Professor Strong talked about verticillium wilt and Dr. Carter gave consideration to the elm canker and dieback disease. Dr. Carter showed several slides depicting methods of taking and shipping samples for diagnosis and culturing the fungus.

While some visual symptoms may

be used to identify these diseases, laboratory culturing is necessary for definite diagnosis. Dr. Tilford closed the interesting session with a brief review of the measures advocated for the control of these diseases.

The meeting was resumed in the afternoon with a discussion of "Some Recent Experimental Results on Two Elm Diseases," by R. R. Whitten, senior entomologist, United States Department of Agriculture, of Columbus, O. Dr. Whitten discussed some of the experimental work with DDT in the control of the elm bark beetle, the insect vector of the Dutch elm disease. Results are promising. An interesting development of the past summer was the discovery of at least one insect carrier of the phloem necrosis disease. A type of leaf hopper is apparently capable of spreading the disease, and it is probable that this insect is susceptible to DDT.

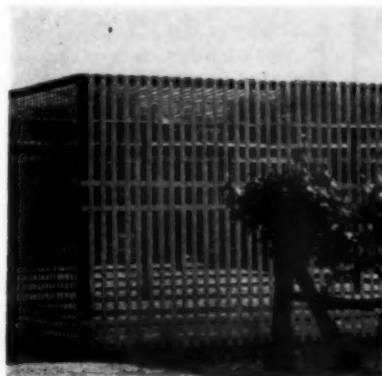
Richard W. Alman, city arborist, Cedar Rapids, Ia., discussed "Municipal Nurseries." Mr. Alman advocated the establishment of municipal nurseries on the basis that quality plants may be produced more cheaply than they may be purchased, that material will be on hand when it is wanted and that new varieties may be grown for trial use on city streets and in parks. Commercial nurseries do not grow many of the new varieties and species because the turnover does not warrant it; thus some desirable types are not generally available. The size of municipal nurseries will vary; Cleveland, O., has a municipal nursery of some 200 acres, while East Lansing, Mich., and Cedar Rapids, Ia., maintain four to five acres.

"Trees in Park Development" was discussed by R. B. McClintock, superintendent of parks and recreation, Omaha, Neb., who emphasized the value of trees in park development. This value is important from the standpoint of beautification, recreation and education. Educational study within the parks can be of considerable importance. Nature trails should be developed. Junior foresters will find opportunities to use the parks for many of their activities. Strive to educate young people against plant mutilation, Mr. McClintock advised.

Picnic areas usually receive the greatest use and abuse. Trees must be selected for planting in these areas that can stand considerable soil compaction and abuse. Park superintendents should discourage the planting of temporary trees. Such a planting scheme seldom works out to advantage. Golf courses are excellent locations for trees, especially the small flowering trees.

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Alumalath, the metal lath, is sold in strips 2" wide, 2,500 feet long or cut to any specified length.

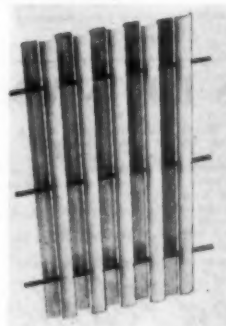
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Extremely light weight of Alumalath and Stringers allows minimum under support thus greatly reducing lumber and labor costs.



Jobber and dealer inquiries are invited.

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PASADENA, CALIFORNIA

The meeting was closed with another plant clinic conducted by Dr. L. C. Chadwick. The panel of experts spent over an hour answering questions which had been placed in the question box by those in attendance.

The outstanding success of the meeting and the enthusiasm displayed indicate favorable prospects for the annual meeting of the National Shade Tree Conference in August at Milwaukee, Wis.

L. H. DAUTEL recently started Dautel's Nursery at 202 Seventeenth street, Lake Charles, La.

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Pioneer seedling growers on the Pacific Coast since 1914.

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We aim to please
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and a general assortment of other nursery stock.

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of Plant Names and Botanical Terms

64 pages, 3000 names, 25¢ per copy

AMERICAN NURSERYMAN
343 S. Dearborn St. Chicago 4, Ill.

PLANT NOTES.

[Concluded from page 26.]

qualified only by the statement that it is tender to cold in this section. I am now happy to make a further report based on later experiences.

I still think it is one of the lovelier of the small plants when it begins its display of sky-blue flowers in June. Previous to that, it is a tiny tuft of blue-gray leaves, for all the world like a miniature rush. Even in that state, it is an intriguing plant, but it becomes really beautiful when it opens its 6-pointed stars of lovely blue. With the exception of its tenderness, all the foregoing has been in the plant's favor. We now come to the darker side of the picture.

In the first place, either I have always had old seeds, or they are naturally erratic in their behavior, for rarely have they germinated in less than a year, and then they usually keep coming, one or two at a time, for another two years. It is clearly impossible to keep seedlings in the seed pan for two or three years; so they have to be lifted carefully and potted as soon as they are large enough to handle. It probably would not be necessary to pot them if they were not being grown for sale, but if they are to be handled after they have made much growth, they should be pot-grown, for the plant does not stand root disturbance after it becomes established.

I never grew *Aphyllanthes monspeliensis* in clay, but I suspect it would do poorly in such a medium for it grows naturally in the light soils of the Mediterranean regions. Here in northern Michigan it did best in our lightest soil of low fertility.

Aquilegia Oxysepala.

When someone asks a question about a columbine, I wish that I could locate a good monograph of the genus or that I understood more about what has been published on the subject. Last week a correspondent asked about *Aquilegia oxysepala*, and I began to look over my notes and the literature and realized again what disorder everything is in. For instance, I have had at least a half-dozen different plants under the same label, and the books are vague and even contradictory on the subject.

There is one plant in the trade which comes nearest to the mark in my estimation; it grows about a foot tall and has large flowers up to two inches across, which are an insipid blue at first and drooping, but later they become upright and are a much darker blue with a lively, white-edged cup. It is perfectly easy to grow if given ordinary columbine treatment and is a real gem.

AMERICAN NURSERYMAN

WANT ADS

Help and Situation Wanted and For Sale advertisements.

Display: \$3.00 per inch, each insertion.
Lines: 25¢ line; Minimum order \$2.00.

HELP WANTED—One or two men, with knowledge of propagation of fruit trees, to work in nursery and in orchard. Answer by mail or call to person, SIMS FRUIT & NURSERY FARMS, Hannibal, Mo.

HELP WANTED—Nurseryman for retail landscape nursery. Man with nursery experience or training preferred. Must be capable of soliciting, designing and supervising plantings, mostly on small properties. Salary and profit-sharing basis. Good opportunity with old established nursery.
STEELE'S NURSERIES, Palmyra, N. J.

HELP WANTED—Nursery superintendent as partner. Established landscape and nursery business near Baltimore requires capable man for all nursery and landscape operations. Owner will confine efforts to landscape design and sales. Real opportunity for permanent and profitable connection. Give outline of experience in first letter. Address Box 548, care of American Nurseryman.

FOR SALE—Established nursery and greenhouse. Good location for florist. For information, write WAYNE SNOW, Old Hickory, Tenn.

SITUATION WANTED

Dutchman, 38 years old, married, with one child, seeks position as nursery manager and salesman; speaks English; thoroughly experienced in propagating and growing hardy nursery stock and accustomed to managing employees in the nursery; has an experience of more than 20 years at Bonkop and a good practical knowledge as a grower and salesman. For full particulars, inquiries and further address, please write No. 310, "Elbee", Hillegom, Holland.

FOR SALE

Retail nursery and perennial gardens: 4 acres well stocked; greenhouse, 21x50 ft.; packing shed; truck, and tools. Beautifully landscaped grounds with 6-room modern residence. Located in north central Ohio on well traveled highway. Priced under \$20,000.00. Address Box 551, care of American Nurseryman.

FOR SALE

An unusual opportunity to acquire a profitable going business; 8 acres of fine soil; packing house and cellar; city of 40,000; on main avenue. Price \$15,000; enough salable stock to more than pay this. Cash, or 1/2 cash, balance arranged. 2 years' profit could more than pay out. Might consider some kind of partnership. Wish to retire.

TREADWELL NURSERY CO.
Great Falls, Mont.

FOR SALE

Well equipped retail nursery, florist and garden supplies, located within 20 minutes of downtown Los Angeles. Price includes all real estate consisting of 200 ft. on main st. and 2-bedroom home; also all stock and equipment. Owner retiring. Full price, \$35,000.00. Easy terms.

TOPHAM REALTY
3502 N. Verdugo Rd. Glendale 8, Calif.

FOR SALE

Tree trimming, removing and spraying and stump-blasting business. Owners wish to sell because of conflicting business interests. Sober, reliable man can earn \$10,000.00 per year; large field, little competition. Will sell for inventory value of equipment; some financing possible. Midwest location. Address Box 547, care of American Nurseryman.

HELP WANTED

Landscape Architect Wanted.

Married man, about 30 to 35 years of age, who has had experience in selling, designing and supervising landscape work. An unusual opportunity to take over the landscape department of our business. We have a large and select clientele.

This job will require much ability and hard work. Good salary and good commission. Must be a college-trained man who is capable of earning from \$5,000.00 to \$10,000.00 per year. References required.

BOULEVARD GARDENS

370 N. Sandusky St.

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FOR SALE

3 pipe frame greenhouses, 27x200 ft.; 16x24 ins. glass, attachable concrete benches, water-pipes, complete heating equipment, including piping and Kroeschell tubular boiler and stoker. A real buy at \$7,500.00. Can be dismantled after May 10.

E. A. WITTMAN

1435 Van Houten Ave.
Clifton, N. J.

FOR SALE

Good-income property for sale by owner. Well stocked and equipped modern nursery; park setting in fast-growing community. Good water plentiful; favorable climate. Has 3 large lath houses, two new; electric hotbed; cloth propagating house; stock room; office; fish pool; aviary; gasoline tank and pump, etc. Enjoys good will of entire area. Comfortable 5-room cottage on property. Entirely fenced.

VANDER VELDEN NURSERY

Phone: 312

119 Ford St. Corona, Calif.

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An entire nursery with complete equipment. Have largest collection of Camellia varieties in United States, together with full assortment of ornamentals. Owner's ill health causes change.

B. W. SHAPER

205 Lincoln Ave.
Chico, Calif.

FOR SALE

Nursery, landscaping and tree surgery business; established 27 years. 12 miles from Pittsburgh on State rd. Total of 26 acres, complete with 4 acres of nursery stock, residence with garage, storage buildings, new trucks and all equipment needed. Several thousand dollars worth of orders and contracts now on books. For full information and price contact

M. W. HINN NURSERIES

Box 267 Sewickley, Pa.

HELP WANTED

Immediate opening for a full-time propagation foreman to take charge of all propagating and growing on. Location, Upper Westchester county near small village, ten miles from Greenwich, Conn. Liking for small town and country life essential. Must be capable of handling men and thoroughly versed in all kinds of ornamental nursery stock and propagation of same. Able to drive car.

Modern house available for a married man, consisting of five rooms, tile bath, hot water heat, fireplace, also garage. Available for immediate occupancy.

Apply in writing, make no personal calls, stating complete experience, references and when personal interview can be arranged.

TROY'S NURSERIES, Inc.
257 Mayflower Ave. New Rochelle, N. Y.

HELP WANTED

If you are a hard-working, honest and industrious man needing a break and are experienced in landscape and nursery work and wish to locate where your income will depend on your ability to produce, write me. I have an old-established business with modern office, greenhouse and plenty of land located on a main highway in midwestern city of 300,000. An opportunity for the right man to acquire an interest in the business or to buy outright. Address Box 546, care of American Nurseryman.

HELP WANTED

A well established eastern nursery is desirous of securing the services of a young man between the ages of 25 and 38. Preference will be given to a graduate of a recognized agricultural college, plus a few years' actual nursery field experience. When applying state qualifications, references and salary expected. Please give all the necessary information in your first letter. Address Box 540, care of American Nurseryman.

HELP WANTED

Small, but fast-growing nursery, located in midwestern Indiana, doing general landscape and maintenance work, with hardy plants a specialty. Needs man with varied nursery and landscape experience. Must be a go-getter and not afraid of work; one who can design and sell preferred. Give references, experience, age, salary expected and all details in first letter. Address Box 552, care of American Nurseryman.

HELP WANTED

Foreman for landscape dept. One who is experienced, can draw plans, make contacts, sell and supervise landscape plantings. Steady all-year employment. Applicant please send full information regarding his background and qualifications.

WABASH VALLEY NURSERIES
R. R. No. 10 Lafayette, Ind.

OKLAHOMA MEETING.

[Continued from page 20.]

of the facilities of the crop improvement association," said Dr. Chester. "Following the meeting of the budwood certification committee and at the request of the committee, the college horticulturists and plant pathologists met with Russell Pierson, secretary of the Oklahoma Crop Improvement Association, and E. Whitehead, extension horticulturist, to discuss the procedure that might be followed in case you decide that you would like to use the facilities of the association in operating the program."

Previous to these remarks, J. A. Armstrong, president of the American Association of Nurserymen, had pointed out that budwood certification programs are already under way or being started in Wisconsin, Iowa, Idaho, Georgia, Ohio, New York, Michigan, Oregon and Washington.

There followed a discussion in which Mr. Pierson explained the functions of the Oklahoma Crop Improvement Association, and a number of the nurserymen commented favorably on the proposed undertaking. Clyde A. Bower, state nursery inspector, offered the services of the Oklahoma state board of agriculture insofar as it might be of aid to the program.

The Oklahoma State Nurserymen's Association then voted unanimously in favor of the proposed program, gave its budwood certification committee full authority to work out the details with the various agencies concerned and instructed it to start the program without delay.

The plan involves only peach budwood at first, with provisions to include other fruits later. It calls for propagation of virus-free foundation budwood of varietal purity certified at the Oklahoma agricultural experiment station, Perkins, with an increase of this budwood on the premises of cooperating nurserymen for one year, followed by the budding of trees to be sold as certified. The foundation orchard, in addition to the standard inspections of the Oklahoma state board of agriculture, is to be examined for the presence or absence of virus diseases by virus specialists of the bureau of entomology and plant quarantine of the United States Department of Agriculture and the Oklahoma agricultural experiment station, and whenever necessary, these inspections are to be verified by grafting experiments (indexing) and chemical tests for virus infection. The program supplements but does not overlap the nursery inspections conducted by the Oklahoma state

board of agriculture, required of all nursery stock grown in Oklahoma.

A week after the convention of the Oklahoma State Nurserymen's Association, the Oklahoma Crop Improvement Association at its annual meeting at Oklahoma City voted to include budwood certification in its program. Under the existing arrangement, barring unforeseen difficulties, the first foundation buds will be provided cooperating nurserymen in the fall of 1948, and the first certified trees will be budded in the fall of 1949 and sold the following season.

Upon the invitation of the Tulsa Nurserymen's Association, the Oklahoma State Nurserymen's Association voted to hold its summer meeting at Tulsa, sometime in June, the date to be set later.

Adjournment came at noon Saturday, with the record number of nurserymen agreeing that the convention had been one of the finest in the history of the association.

CATALOGS RECEIVED.

Bagatelle Nursery, Huntington station, N. Y.—Wholesale list of trees and shrubs, 16 pages, 3 7/8x8 3/4 inches.

Baker Bros. Nursery, Fort Worth, Tex.—Wholesale price list of lining-out stock, coniferous and broad-leaved evergreens, shade and ornamental trees and roses, 8 1/2x14 inches.

Hebden H. Corsan, Hillsdale, Mich.—Nut tree catalog, 4 pages with illustrated insert, 8 1/2x11 inches.

Cunningham Gardens, Waldron, Ind.—Wholesale list of chrysanthemums, hardy phlox and other perennials, 6 pages, 4x9 1/4 inches.

William Crosby Horsford, Charlotte, Vt.—Wholesale list of collected evergreens, hardy orchids and lilies, 8 pages, 4x9 inches.

Jewell Nurseries, Inc., Lake City, Minn.—Wholesale price list of trees, shrubs, perennials and roses, 12 pages, 4x8 3/4 inches.

Thomas B. Meehan Co., Dresher, Pa.—Wholesale price list of ornamental trees and shrubs, 4 pages, 5 1/2x13 1/2 inches.

Musser Forests, Inc., Indiana, Pa.—Wholesale catalog, illustrated, of evergreen seedlings, berries and gladiolus bulbs, 16 pages, 8 1/2x11 inches.

Pallack Bros. Nurseries, Inc., Harmony, Pa.—Wholesale trade list of lining-out stock, rooted cuttings, perennials and finished ornamentals, 8 pages, 4x9 inches.

E. D. Robinson Sales Agency, Wallingford, Conn.—Trade list of deciduous trees and shrubs, fruit trees and small fruits, 12 pages, 4x8 inches.

Sneed Nursery Co., Oklahoma City, Okla.—Wholesale list of evergreens, trees, shrubs and lining-out stock, 24 pages, 4x9 7/8 inches.

Stratford Gardens, Delaware, O.—Trade list of gypsophila, delphinium, hardy chrysanthemums and shrubs, 8 pages, 4x9 inches.

L. E. Williams Nursery Co., Exeter, N. H.—Wholesale price list of native trees, shrubs, plants and bulbs, 12 pages, 5 7/8x8 7/8 inches.

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Peonies

NOVELTIES IN ALL LINES

Ask for wholesale catalog.

F. J. Grootendorst & Sons
BOSKOOP, HOLLAND

Growers and exporters since 1903.

Willis Nursery Co., Ottawa, Kan.—Wholesale catalog of fruits and flowers, 24 pages, 8 3/5x10 1/2 inches.

Joseph Breck & Sons, Boston, Mass.—Retail catalog, illustrated in color, of vegetable and flower seeds, bulbs, trees and shrubs, fruits and fertilizers, 80 pages, 8x10 3/5 inches.

Hillenmeyer Nurseries, Lexington, Ky.—Retail list, illustrated in color, of roses, berries and fruits, 8-page folder, 9 1/2x12 1/2 inches.

Home Nursery, Lafayette, Ill.—Retail catalog, illustrated, of trees, shrubs, evergreens and fruits, 24 pages and cover, 6 1/2x10 inches.

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Originators of Azalea Vuykiana (Hardy Dutch Hybrid Azaleas), large-flowering, bloom with foliage; in one white variety and several in nonfading colors.

Propagators and growers of choice nursery stock. All types of Azaleas, Rhododendrons and other broad-leaved Evergreens, Conifers, Roses, Shrubs and Perennials.

Exports to the U. S. A. receive special preparation, cleaning and packing for best results. All stock carefully graded. New York office handles all import details at no extra cost.

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140 Cedar Street New York 6, N. Y.
VUYK VAN NES NURSERIES

HOLLAND PEAT MOSS

Best quality, large bales, properly packed by a group of the largest producers operating extensive highland moors and well equipped mills. Carlots of 300 bales or more only. Write.

HOLLAND BURLAP SQUARES

Uniform quality, two tape edges for tying. Made by the largest mill in Holland, whose exclusive distributors we have been since 1921. Stock on hand and being made. Order now for prompt or later delivery.

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Maurice C. Ravensberg Boskoop, Holland

Reliable firm for general Nursery Stock
and Belgian plants.
Catalog on application.

William M. Hunt & Co., New York, N. Y.—Retail catalog, illustrated, of vegetable and flower seeds, bulbs and shrubs and fruit plants, 48 pages, 6x9 inches.

Kallmans Garden Nursery, Santa Barbara, Cal.—Retail catalog, illustrated partly in color, of camellias, azaleas, flowering shrubs, trees and fruits, 32 pages, 8½x11 inches.

Marshall's Nurseries, Arlington, Neb.—Retail catalog, illustrated partly in color, of fruits, roses, shrubs and evergreens, 28 pages, 8½x10½ inches.

Norfolk Nursery, Simcoe, Ont., Canada.—Retail catalog, illustrated, of fruits, flowers and ornamental nursery stock, 52 pages and cover, 5¼x8¼ inches.

Saxton & Wilson, Maplewood, Ore.—Retail catalog, illustrated partly in color, of hardy herbaceous and woody plants and collector's items, 48 pages and cover, 7¾x10¾ inches.

Sims Fruit & Nursery Farms, Hannibal, Mo.—Retail catalog, illustrated, of fruits, berries, shrubs and trees, 24 pages, 6x9 inches.

Sunny Ridge Nursery, Swarthmore, Pa.—Retail price list of nut trees, 6 pages, 5¾x8¾ inches.

LANDSCAPERS ELECT AT INDIANAPOLIS.

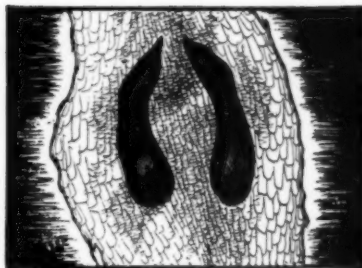
The Indianapolis Landscape Association held its annual banquet and meeting February 19 at La Rue's restaurant, Indianapolis, Ind. Sixty-three persons, including members, their wives and families and guests, were present and enjoyed a delicious steak dinner.

E. B. Palmer, master of ceremonies, presented a program of lively entertainment. Mr. King brought back a remembrance of old vaudeville with his tap dancing doll novelty act; the "Twelfth Streeters," an accordion duet, played dinner music, and the Purdue Co-eds turned out to be the most popular act of the evening.

Floyd Bass, Floyd Bass Peony Farm, New Augusta, retiring president, summarized the past year's activities and turned the meeting over to Henry J. Schnitzius, president for 1948. The other new officers are H. N. Engledow, Midwestern Tree Experts, Indianapolis, vice-president; David E. Burkhart, secretary, and Edward A. Maschmeyer, Maschmeyer's Nursery, Indianapolis, treasurer. The following committee chairmen were appointed: H. N. Engledow, program, and James A. Maschmeyer, publicity. James Lowry, Eagle Creek Nursery Co., New Augusta, will be the landscape architect for the 1948 Indianapolis home show, and the landscape association will put in the gardens as a community project.

James A. Maschmeyer.

THE State Road Nursery, Media, Pa., formerly owned by B. P. D'Amore, is now being operated by John Guanti, Jr.



↑ ROOT-KNOT NEMATODES inside plant root. Greatly enlarged. Pest attacks over 1500 kinds of plants

THEY RUIN FLOWERS by entering feeder roots, causing galls that cut off nourishment to plant



THIS NEMATODE CONTROL HELPS YOU 2 WAYS

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Use D-D* in your own soil. You'll
find plants are stronger, easier to sell

STEPS UP THE GROWING POWER
OF CUSTOMERS' GARDENS

Recommend D-D to customers.
It can help increase the need for
other garden items you carry

YES, here is a natural to help increase your profits. Commercial tests have shown again and again that D-D is a needed aid to gardening in areas infested by nematodes, wireworms, mole crickets and other root-destroying pests.

Try using D-D on your own soil for healthier, more profitable vegetables and flowers. And recommend that your customers treat with D-D before setting out beans, tomatoes, carrots, dahlias, begonias and all the other plants that fail because of these root-destroying pests. D-D will often step up plant growth 100%.

Think what this increased garden activity can mean in increased business, not only in high-profit D-D, but in other garden supply items as well.

For information on using and selling D-D,
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SELECTED LILY BULBS

	Per 100
2000 Tenuifolium, 3 to 4 ins.	\$10.00
2000 Concolor, 3 to 4 ins.	10.00
800 Sunset, 5 to 6 ins.	22.50
500 Sunset, 6 to 7 ins.	30.00
1000 Rubrum, 7 to 9 ins.	40.00
4000 Regale, 5 to 6 ins.	7.50

Cash or C.O.D.

MONARCH PLANT FARMS

Kalamazoo 99, Mich.

GLADIOLUS BULBS

	No. 1	No. 2	No. 3
State inspected—Highest quality.			
Prices per 1000			
Mixed (good varieties)	\$20.00	\$17.50	\$14.00
Named Color Varieties	22.50	18.00	15.00

Cash with order, please.

F.O.B. Benton Harbor, Mich.

MICHIGAN GLADIOLI FARM

P. O. Box 72 Benton Harbor, Mich.

"Where Michigan's Finest Gladioli Grow"

CANNAS—City of Portland

2 to 5 eyes, \$5.00 per 100, \$45.00 per 1000.

WAYNESBORO NURSERIES

Waynesboro, Va.

CAMELLIAS

CAMELLIAS

TORMEY'S

are

GROWERS AND SHIPPERS OF FINE CAMELLIAS.

THE BEST FROM THE FAR WEST.

To acquaint new customers with "Tormey Quality" we will send you a case of 50 CAMELLIA PLANTS for \$22.50, or 100 PLANTS for \$40.00 of any selected from this list of pot-grown plants. THESE PRICES ARE ALL YOU PAY—WE DELIVER FREE BY EXPRESS. Order at once while selection is complete, and we will ship plants well packed in wooden boxes. Alba Superba, Bella Romana, Herme, Kumasaka, Sarah Frost, Purity, Pink Perfection, Red Bella Romana Special, Rose Queen variegated, Rose Queen Red and Lady Clare.

Tormey-grown Camellia Plants, from the smallest liner to the largest specimen, will reach you growing vigorously and will continue their vigorous growth uninterrupted, because they are grown in containers and are shipped in containers with all of the plant roots protected, intact and undisturbed.

TORMEY'S Temple City, Calif.

CAMELLIAS

Another big CLEARANCE sale.

Pope Plus IX, Sarah Frost, Mission Bell, Prof. Sargent, Bonnie Lee, Rose Emery, Beali Rosea, Jarvis Red, Gloire de Nantes, Countess of Orkney, Derblana, Cheerful, Semidouble Blush and Reine des Fleurs, seedlings:

	Each
10 to 15 ins.	\$5.00
6 to 10 ins.	3.50

No less than 10 of any kind sold. Check with order please. Semibare roots packed in sphagnum moss.

NATIONAL NURSERIES, Biloxi, Miss.

CAMELLIAS

Blooms, cuttings, rooted cuttings, liners and container plants, 6 to 20 ins.; B&B, 18 ins. to 4 ft.; field-grown 6 to 10 ft. Over 75 varieties. Write for prices.

SUNNY KNOLL NURSERY, Dept. A, P. O. Box 856 Mobile, Ala.

CUTTING WOOD

HYBRID FRENCH LILAC SCIONS

We have some really clean, vigorous, current-year wood available in limited quantities for scions in the following varieties:

Horstenstein

Miss Ellen Willmott

Maurice Barres

Marie LeGraye

Lamarline

Charles X

Waldeck-Rousseau

Beyrier

Carefully selected, cut to size for grafting and available for immediate shipment.

\$50.00 per 1000.

KOSTER NURSERY

Bridgeton, N. J.

James S. Wells, Manager

CUTTING WOOD

Lombardy Poplar, 7-inch, hand-made cuttings, \$5.00 per 1000, prepaid. Cash please.

PRITCHARD NURSERIES

Ottawa, Kan.

EVERGREENS

LINING-OUT STOCK, SPRING 1948

Select items of quality lining-out stock of Evergreens and Shrubs. Rooted Cuttings, Grafts and Transplants for early and late spring shipment. Send for our list and order early.

JOHN VERMEULEN & SONS, INC.

Westbury, L. I., N. Y.

LINING-OUT STOCK

PLAY SAFE: Place your order early. Please send cash with order, except in instances where customer has established credit on our books.

Each per 100

Biota aurea nana, 2½-in. pots \$0.18

Juniperus chinensis pfitzeriana, 10

4 to 4 ins. liners, 10

4 to 6 ins. liners, 15

2½-in. pots, 18

Juniperus chin. pfitzeriana nana, 15

3 to 4 ins. liners, 15

4 to 6 ins. liners, 18

Jun. chin. pfitzeriana compacta, 15

2½-in. pots, 20

Jun. com. columnaris compacta, 15

4 to 6 ins. liners, 15

Jun. com. compacta, 2½-in. pots, 18

Jun. com. ashfordi, 3 to 4 ins. liners, 10

4 to 6 ins. liners, 12

6 to 8 ins. liners, 15

Retinospora squarrosa veitchi, 18

Taxus cuspidata, 2½-in. pots, 20

Thuja occidentalis pyramidalis, 15

4 to 6 ins. liners, 15

2½-in. pots, 18

2½-in. pots, 20

Abelia Edward Goucher, 2½-in. pots, 12

Berberis argentea, 2½-in. pots, 15

Buxus sempervirens, 3 to 4 ins. liners, 08

4 to 6 ins. liners, 10

Buxus balearica, 12

12 to 15 ins. field-grown, 25

Camellia Sasanqua, Maiden's Blush, 15

Pink, 2½-in. pots, 12

Gardenia fortunei, 2½-in. pots, 12

Ilex crenata, 2½-in. pots, 12

Ilex crenata rotundifolia, 2½-in. pots, 12

Ligustrum lucidum compactum, 08

4 to 8 ins. liners, 10

6 to 8 ins. liners, 10

2½-in. pots, 12

Mahonia bealei, 2½-in. pots, 10

Viburnum tinus, 4 to 6 ins. liners, 08

6 to 8 ins. liners, 10

Althaea amplexicaulis, 15

18 to 24 ins. well branched, 15

Althaea Duchaea de Brabant, 06

Red-leaved Barberry, 4 to 6 ins. liners, 08

6 to 8 ins. liners, 06

8 to 12 ins. liners, 08

Cydonia japonica, 6 to 8 ins. liners, 05

8 to 12 ins. liners, 09

Exochorda grandiflora, 25

3 to 4 ft., branched, 05

Kerria japonica flore-pleno, 05

4 to 6 ins. liners, 06

6 to 8 ins. liners, 06

2½-in. pots, 10

2½-in. pots, 12

Lonicera Flaming Beauty, 12

4 to 6 ins. liners, 15

6 to 8 ins. liners, 15

Magnolia soulangeana nigra, 2½-in. pots, 35

Pink-flowering Almond, 10

6 to 8 ins. liners, 12

2½-in. pots, 12

Spiraea Anthony Waterer, 04

3 to 4 ins. liners, 06

4 to 6 ins. liners, 06

6 to 8 ins. liners, 08

8 to 12 ins. liners, 10

Spiraea reevesiana flore-pleno, 10

6 to 8 ins. liners, 12

8 to 12 ins. liners, 12

Spiraea vanhouttei, 12

18 to 24 ins., branched, 15

2 to 3 ft., well branched, 15

Viburnum acerifolium, 4 to 6 ins. liners, 04

6 to 8 ins. liners, 06

8 to 12 ins. liners, 06

18 to 24 ins. liners, 08

Weigela rosea, 12 to 15 ins. liners, 05

12 to 18 ins. liners, 05

18 to 24 ins., brached liners, 06

California Privet, grafting grade, 03

California Privet, 2 to 3 ft., 04

4 canes and up, 04

T. G. OWEN & SON, INC.

Columbus, Mississippi

LANDSCAPING SIZES, XXX, B&B

COLORADO SPRUCE (Picea pungens)

Each

400 18 to 24 ins. \$1.10

150 2 to 2½ ft. 1.75

100 2½ to 3 ft. 2.50

50 3 to 3½ ft. 3.00

NORWAY SPRUCE

20 2½ to 3 ft. 1.50

20 3 to 3½ ft. 1.75

30 3½ to 4 ft. 2.25

30 4 to 6 ft. 3.00

Reduced for early spring digging as we need the space. F.O.B. nursery; no boxing.

Truck deliveries within 100 miles, \$25.00.

BROOKFIELD GARDENS, Delaware, N. J.

POTTED EVERGREENS

For Spring Delivery

Per 100 Per 1000

Juniperus pfitzeriana 5 to 7 ins. \$20.00 \$175.00

Taxus cuspidata 7 to 9 ins. 25.00 200.00

Taxus hicksii 8 to 10 ins. 25.00 200.00

Taxus columiana 7 to 10 ins. 25.00 200.00

Canada Hemlock 8 to 10 ins. 20.00 160.00

Send for our price list for Biota aurea nana, Junipers, Taxus and Arborvitae. Also rooted cuttings for spring delivery. Packing and boxing at cost. Cash with order.

VOGUE FLORAL GARDENS

New Lebanon, Ohio

EVERGREEN LINERS

Upright Yew Per 100

R.C. \$ 9.00

1-yr. bedded 20.00

Savin Juniper 10.00

R.C. 10.00

1-yr. bedded 20.00

Andorra Juniper 8.50

R.C. 15.00

1-yr. bedded 15.00

15 to 18 ins. XXX 15.00

Globe Arborvitae 8.00

R.C. 18.00

1-yr. bedded 75.00

10 to 12 ins. XXX 9.50

Pyramidal Arborvitae 20.00

R.C. 9.50

1-yr. bedded 20.00

Siberian Arborvitae 9.50

R.C. 75.00

12 to 15 ins. XXX 65.00

Mugho Pine 85.00

6 to 10 ins. XXX 65.00

12 to 15 ins. XXX 85.00

Col. Blue Spruce 65.00

12 to 15 ins. XXX 85.00

18 to 24 ins. XXX 85.00

Packed free. Cash, please.

ATTENTION LANDSCAPERS

400 to 500 2 to 8-ft. Specimen Evergreens

to be moved this spring. American Arborvitae, Norway Spruce, Austrian Pine, Andorra Juniper, Koster Bl. Spruce and Green and Blue Colorado Spruce. Write for prices. Several other varieties.

WESTFIELD EVERGREEN NURSERY

Westfield, Wis.

JUNIPERS

For Spring Delivery

Per 100

ADMIRABILIS, blue-green creeper, 18.00

6 to 9 ins. X 45.00

12 to 15 ins. XX 45.00

ANDORRA, 45.00

2½ to 15 ins. XX 45.00

KOSTER, 25.00

6 to 9 ins. X 25.00

PATHFINDER, 35.00

6 to 9 ins. X, cuttings 20.00

PFITZER, 20.00

PFITZER, GOLDEN, 25.00

6 to 9 ins. X 25.00

SAVIN, 25.00

6 to 9 ins. X 25.00

VIRGINIANA, PLATTE RIVER, 8.00

4 to 6 ins. X, field-grown, 12.00

6 to 9 ins. X, field-grown, 12.00

All our lining-out evergreens are dug bare root, puddled and packed in moss. Grafts shipped from pots. Packing and boxing at cost. Ten per cent discount on 1000 lots.

NEBRASKA NURSERIES, INC.

4815 "O" St. Lincoln 8, Neb.

POT-GROWN LINERS

Per 100 Per 1000

Taxus hicksii, 2-in. pots, 6 to 10 ins. \$21.00 \$210.00

Taxus cuspidata, 2½-in. pots, 6 to 8 ins. 22.00 220.00

Taxus cusp. capitata, 2½-in. pots, 6 to 8 ins. 23.00 230.00

Viburnum rhytidophyllum, 2½-in. pots, 6 to 8 ins. 32.00 320.00

3-in. pots, 8 to 10 ins. 45.00 450.00

Viburnum burkwoodii, 2½-in. pots, 6 to 8 ins. 26.00

Euonymus patens, 2½-in. pots, 6 to 8 ins. 18.00

All potted plants transferred to paper pots for shipping.

Per 100

Taxus media hicksii, 12 to 15 ins. field, xx \$125.00

Taxus cusp. capitata, 10 to 12 ins. field, xx 150.00

Taxus cuspidata, 12 to 15 ins. field, xx 125.00

STROHL'S NURSERY

1404 N. Anthony Blvd. Fort Wayne, Ind.

LINING-OUT STOCK FOR SPRING

SHIPMENT

Pot-grown—ready for field planting.

Per 100

Buxus arborescens, T.P. \$15.00

Juniperus depressa plumosa, 2½-in. 15.00

Juniperus excelsa stricta, 2½-in. 15.00

Juniperus hibernica, 2½-in. 15.00

Juniperus horizontalis, 2½-in. 15.00

Juniperus pfitzeriana, 2½-in. 20.00

Taxus cuspidata, 2½-in. 22.50

Taxus cuspidata, 2½-in. 20.00

Taxus hicksii, 2½-in. 20.00

Thuja elegantissima, 2½-in. 20.00

Thuja hoveyi, 2½-in. 15.00

Thuja pyramidalis, 2½-in. 20.00

Thuja pyramidalis, Improved, 2½-in. 20.00

Thuja woodwardi, 2½-in. 17.50

Euonymus coloratus, 2-in. 12.00

Euonymus radicans erecta, 2-in. 12.00

Kerria japonica f.l.p., 2½-in. 12.00

Orders accepted subject to prior sale.

EVERGREENS—Continued

EVERGREEN LINERS	
Rooted cuttings, \$9.50 per 100, \$90.00 per 1000.	
Pfitzer Juniper	
Pyramidal Arborvitae	
1-yr. Evergreens, from 2x2-in. plant bands, \$18.00 per 100, \$175.00 per 1000.	
Pfitzer Juniper	
Pyramidal Arborvitae	
Irish Juniper	
Brown's Yew	
Spreading Yew	
Hicks' Yew	
Hunnell Yew	
1-yr. Evergreens from 2 1/2-in. rose pots, \$21.00 per 100, \$200.00 per 1000.	
Pfitzer Juniper	
Brown's Yew	
Spreading Yew	
Shipment after May 1 to states reciprocal with Ill. 300 at 1000 rate. Cash with order or C.O.D.	

HENRY LYNNE NURSERY Henry, Ill.

SCARCE LINING-OUT STOCK

From field rows, heavy, TT.	
Upright Yew, 12 to 15 ins.	Each \$1.00
Hicks' Yew, 12 to 15 ins.	.90
Hicks' Yew, 12 to 15 ins.	.90
Brown's Yew, 12 to 15 ins.	.90
Hatfield Yew, 12 to 15 ins.	.90
Dwarf Yew, 8 to 10 ins.	.75
Halloran Yew, 10 to 12 ins.	.75
Thayer's Yew, 10 to 12 ins.	.75
Canada Hemlock, 12 to 18 ins.	.50
Once transplanted.	
Pyramidal Yew, 10 to 12 ins.	.45
Intermediate Yew, 10 to 12 ins.	.45
Anderson Yew, 10 to 12 ins.	.45
Hunnell Yew, 10 to 12 ins.	.45
Not less than 25 of one variety.	
Cash with order, please.	

VILLA PARK EVERGREEN CO. Villa Park, Ill.

TRANSPLANTED LINING-OUT EVERGREENS.

Per 100 Per 1000	
Colo. Blue Spruce, 3 to 6 ins., x. \$7.50	\$65.00
Norway Spruce, 3 to 7 ins., x. 6.50	60.00
White Spruce, 3 to 6 ins., x. 6.00	50.00
Red Spruce, 6 to 18 ins., xx. 10.00	85.00
Canadian Hemlock, 6 to 12 ins., x. 15.00	100.00
SEEDLINGS.	
Scotch Pine, 4 to 5 ins.	5.00 40.00
Scotch Pine, 2 to 4 ins.	3.50 30.00
American Red Pine, 3 to 8 ins.	5.00 40.00
Douglas Fir, 4 to 10 ins.	7.50 60.00
Douglas Fir, 3 to 6 ins.	4.00 30.00
Minimum order \$10.00. Cash please.	

SUNCREST EVERGREEN NURSERIES Johnstown, Pa.

HUXUS SEMPERVIRENS, 3 to 5 ins., trans. in beds, \$10.00 per 100, \$80.00 per 1000.	
HUXUS SUFFRUTICOSA, 3 to 4 ins., trans. in beds, \$10.00 per 100, \$80.00 per 1000.	
8 to 10 ins., bare roots.....each	\$0.85
10 to 12 ins., bare roots.....each	1.10
12 to 24 ins., bare roots.....each	1.50
14 to 16 ins., B&B.....each	1.75
16 to 18 ins., B&B.....each	2.25
18 to 20 ins., B&B.....each	3.50
20 to 24 ins., B&B.....each	4.00
300 fine collected specimens, 2 1/2 to 6 ft., prices on request.	

BLUE RIDGE NURSERIES Rt. 2 Salem, Va.

TAXUS CAPITATA

We have a block of 10,000 upright Yews that we are now offering for sale. Every plant is a compact, tightly sheared specimen. Let us book your order now for spring shipment.

1 1/2 to 2 ft.	Each \$3.25
2 to 2 1/2 ft.	4.00
2 1/2 to 3 ft.	5.00

WOODBOURNE CULTURAL NURSERIES, INC.

Office: Jericho Turnpike, New Hyde Park, L.I., N.Y. Phone: Fieldstone 7-2129; Nurseries: Lower Half Hollow Rd., Melville, L.I., N.Y.

GRAFTS

Canaerti, burki, glauca, hetzi and pfitzeriana Juniper grafts on virginiana understock for spring delivery, at \$40.00 per 100; \$35.00 per 1000, 300 take 1000 rate. Cash only, and free packing. Good grafts on virginiana understock are in short supply, due to a shortage of good understock. Better order early.

YEW ROOTED CUTTINGS

Capitata, cuspidata and hickel for spring delivery, \$10.00 per 100, \$85.00 per 1000.

T. C. CRUME NURSERY & LANDSCAPE CO. Florence, Ky.

EVERGREEN LINERS

Taxus cuspidata capitata, from seeds, twice-transplanted, 9 to 13 ins. Once-transplanted Taxus hatfieldi, hickel and cuspidata; Hemlock, and Pfitzer Juniper. Get acquainted with Brookfield Evergreens. BROOKFIELD GARDENS Delaware, N. J.

NANDINAS, FROM OUTSIDE BEDS

Per 100 Per 1000	
3 to 4 ins.	\$6.00 \$55.00
4 to 6 ins.	8.00 75.00

TRAUERNICHT NURSERY CO. 400 N. Sylvania Ave. North Worth 11, Tex.

LINING-OUT STOCK

1-year liners, from open field beds, 6 to 8 ins., \$100.00 per 1000.
Taxus hickel and cuspidata. Globe and Pyramidal Arborvitae.

Rooted cuttings with sand for May 15 to June 1 delivery, \$50.00 per 1000.
Taxus hickel, cuspidata and hatfieldi. Globe, Pyramidal, Elegantisima and Geo. Peabody Arborvitae. Ret. plumosa, aurea and squarrosa.

SANDY LYNNE NURSERY Norristown Rd. Neshaminy, Pa.

Pieris japonica, 2-yr., tr. 8 to 12 ins. Azalea Alcatrazensis, 2-yr., tr. 4 to 10 ins. Azalea Babeuf, 2-yr., tr. 4 to 10 ins. Rhododendron ponticum, grafting size. Rhododendron hybrid seedlings, 6 to 10 ins. Picea excelsa, grafting size. Acer palmatum atrop., seedlings, 2-yr., tr. 6 to 10 ins.

Thuja (Biota) orientalis, understock, once transplanted, suitable for grafting. Samples and prices on application.

RHODE ISLAND NURSERIES

Newport, R. I.

LIRIOPE MUSCARI, a splendid evergreen perennial plant with dark green strap-like leaves. Grows anywhere with little attention. Excellent for bordering shrubs, or perennial borders. Also used as an accent plant in perennial border. Beautiful spikes of purple-blue flowers in August. Medium clumps, 10 for \$2.00, 100 for \$17.50.

Ophiopogon japonica, evergreen, grass-like ground cover. Small div., 100 for \$3.00.

CROWN CAMELLIA GARDEN

Decatur, Georgia

SELLING OUT

The entire nursery stock of Greenbrook Nurseries, Inc., consisting of 50 acres of Evergreens, in all sizes, must be sold. All stock sold in blocks, row-run in ground. Will be pleased to have you inspect our nursery. GREENBROOK NURSERIES, Inc. Between Highway 29 and Greenbrook Rd. Bound Brook, N. J.

LINING-OUT STOCK

A full selection of the better Taxus, Hemlocks, Junipers and Arborvitae. Also scarce Pieris, Buxus, Leucothoe, Azaleas and Ilex in variety. Send for complete Spring List.

POSSUM HOLLOW NURSERIES

6327 Magnolia St. Philadelphia 44, Pa.

RHODODENDRON UNDERSTOCKS

Catawbiensis, ponticum, discolor, twice trsp., 3-yr.-old with ball. 6 to 8 ins., strong plants, 30c each.
50, minimum order; crating free; cash with order. F. O. B. Nursery.

RICHARD P. RESSEL

Mulino, Ore.
Norway or Red Pine, xx, 24 to 32 ins., \$7.50 per 10. White Spruce, xx, 36 ins. average, \$10.00 per 10.

Packing free.

HAYWARD GREENHOUSE

Hayward, Wis.

VIRGINIA LIVE OAKS

THE EVERGREEN OAK
6 to 12 inches.....\$10.00 per 100
12 to 24 inches.....20.00 per 100
F. O. B. Nursery.

STOVALL NURSERY, Leakeville, Miss.

NANDINA LINERS. Spring delivery. Just right for potting or planting in coldframes. \$40.00 per 100, \$75.00 per 2000.

JORDAN NURSERIES

Milledgeville, Ga.

KALMIA LATIFOLIA, native plants, collected. Stocky lining-out plants, 8 to 10 ins., \$15.00 per 100. F. O. B. Laurel Springs.

WILLIAM H. JONES, Nurseryman

Berlin Rd. Laurel Springs, N. J.

Lining-out stock of Azaleas, Rhododendrons and Boxwood.

Write for list of varieties and prices.

LEVICK NURSERY CO.

R. F. D. 3 Bridgeton, N. J.

COLORADO SILVER CEDAR

2-yr.-old, 6 to 12 ins., \$12.00 per 100, \$100.00 per 1000.

LITTLETON NURSERIES

Littleton, Colo.

500 Juniperus pfitzeriana, pots, 8 to 10 ins.

250 Juniperus hetzi, pots, 8 to 10 ins.

\$175.00 for the lot.

BRUNING'S NURSERIES

Higginville, Mo.

LINING-OUT STOCK

Price list on request.

GIRARD BROS. NURSERY

Geneva, Ohio

CHINESE ARBORVITAE from seedbeds, 6 to 12 ins., \$50.00 per 1000.

LUKE NURSERY

Pauls Valley, Okla.

HEMLOCKS—RHODODENDRON—KALMIA

AZALEAS

CURTIS NURSERIES Callicoon, N. Y.

Surplus Stock

can be easily and quickly turned into

Cash

Listing it in the

American Nurseryman Classified Ads.

FRUIT TREES

FRUITS

APPLE

	Per 10	Per 100	Per 1000
2-yr., 1 1/2-in.	\$ 5.00	\$45.00	\$400.00
2-yr., 9/16-in.	4.50	40.00	350.00
2-yr., 7/16-in.	3.50	30.00	250.00
1-yr., 4 to 6 ft., whips.	4.50	40.00	350.00
1-yr., 3 to 4 ft., whips.	3.50	30.00	250.00
1-yr., 2 to 3 ft., whips.	3.00	25.00	200.00
2-yr., 6 to 7 ft.	7.50	65.00	500.00
5-in-1 Apple, 2-yr., 4 to 6 ft.	12.00		
Anoka	Lodi		
Calum	Lowry		
Closs	Macoun		
Cortland	Maiden Blush		
Delicious	M. B. Twig		
Dbi. Red Delicious	McIntosh		
Dbi. Red Duchess	N. W. Greening		
Dbi. Red Jonathan	Paragon		
Dbi. Red Rome	Rome Beauty		
Dbi. Red Spy	Smokehouse		
Dbi. Red Stayman	Stayman		
Early Harvest	Summer Rambo		
Early Red Bird	Summer Yellow Del.		
Fall Pippin	Sweet Paradise		
Grimes Golden	Turley Winesap		
Hyslop Crab	Winesap		
Jonathan	Winter Banana		
Lady	Yellow Delicious		
Liveland Rasp.	Yellow Transparent		

YORK IMPERIAL

PEACH

	Per 10	Per 100	Per 1000
1 1/2-in., 5 to 7 ft.	\$5.00	\$45.00	\$400.00
9/16-in., 4 to 6 ft.	4.50	40.00	350.00
7/16-in., 3 to 4 ft.	3.50	30.00	250.00
Belle of Georgia	J. H. Hale		
Carman	Late Elberta		
Champion	Lizzie		
Crawford's Early	Mayflower		
Elberta	Red Bird		
Fireglow	Redhaven		
Golden East	Salberta		
Golden Jubilee	Shipper's Red		
Halehaven	Slappy		
Heath Cling	Sullivan's Early		
Hiley	Elberta		
Indian	Trigem		
PLUM		Per 10	Per 100
7 to 8 ft., 1 1/2 to 2-in.		\$17.50	\$150.00
6 to 7 ft., Jumbo size.		10.00	85.00
4 to 6 ft.		8.00	75.00
3 to 4 ft.		6.00	60.00
2 to 3 ft.		4.50	40.00
Abundance	Mammoth Golden		
Burbank	Red Juno		
European Prune	S. Damson		

Wickson

VICTORIA RHUBARB Per 10 Per 100

2-yr., Jumbo size.....\$1.50 \$12.00

GRAPES Per 10 Per 100

2-yr., No. 1.....\$2.25 \$20.00

Brighton.....Lutie

Caco.....Moore's Ea.

Catawba.....Niagara

Champagne.....Ontario

Concord.....Portland

Delaware.....Sheridan

Fredonia.....Worden

Lucile

PEAR Per 10 Per 100

Kieffer, 4 to 6 ft.....\$7.50 \$65.00

Kieffer, 3 to 4 ft.....6.00 50.00

Bartlett and

Clapp's Favorite

4 to 6 ft.....8.00 75.00

3 to 4 ft.....6.50 60.00

NECTARINE Per 10 Per 100

4 to 6 ft.....\$8.00 \$75.00

3 to 4 ft.....6.00 50.00

2 to 3 ft.....4.50 40.00

ASPERBERIES Per 100 Per 1000

Cumberland, Blackcap.....\$4.00 \$37.50

Latham, Red.....5.50 50.00

BLACKBERRIES—Assorted Varieties,

THORNLESS BOYSENBERRIES, \$5.50 per 100, \$45.00 per 1000.

FRUIT TREE SEEDLINGS Per 100 Per 1000

Apple and Pear, No. 1.....\$3.50 \$30.00

Mahaleb Cherry, No. 1.....4.00 35.00

Myrobalan Plum, No. 1.....3.50 30.00

Write for quotations on large quantities

of Fruit.

WAYNESBORO NURSERIES

Waynesboro, Virginia

NUT TREES

	Per 10	Per 100
Black Walnut, 2 to 3 ft.	\$ 6.00	\$ 60.00
Black Walnut, 3 to 4 ft.	7.50	65.00
Black Walnut, 4 to 5 ft.	10.00	90.00
Black Walnut, 5 to 6 ft.	12.50	120.00
Black Walnut, 6 to 8 ft.	15.00	140.00
Filbert, American, 2 to 4 ft.	10.00	90.00
Filbert, American, 4 to 5 ft.	13.50	125.00
Papershell Pecan, 2 to 3 ft.	9.50	90.00
Papershell Pecan, 3 to 4 ft.	12.00	100.00
Papershell Pecan, 4 to 5 ft.	16.00	150.00
Stuart Pecan, 2 to 4 ft.	16.00	150.00
English Walnut, 2 to 3 ft.	12.50	115.00

WAYNESBORO NURSERIES

Waynesboro, Virginia

PEACH TREES, Varieties: Mayflower, Cham-

pion, Red Bird Cling, Indian Cling, 2 to 3

ft., \$10.00 per 100; 3 to 4 ft., \$15.00 per 100.

Concord grapevines, 1-year-old, No. 2,

\$30.00 per 1000.

FONZER NURSERY, Rolla, Mo.

FRUIT TREES

Sweet and Sour Cherries, Apples and

Pears. Write for prices.

DRAKE'S NURSERIES

G-4342 Branch Rd., Flint, Mich.

APPLE TREES, 7/16-in., 20c; 5/16-in., 15c; 4 to 5 ft., 20c; 3 to 4 ft., 15c; 2 to 3 ft., 12½c. Yellow Delicious, Stayman, Grimes Golden, Winesap. PEAR, Sugar, believed to be Sockel, 11/16-in., 60c; 9/16-in., 60c; 7/16-in., 40c. PEACH, 11/16-in., 30c; 9/16-in., 25c; 7/16-in., 20c; 5/16-in., 17½c; 2 to 3 ft., 15c; 18 to 24 ins., 12½c; 12 to 18 ins., 10c; 6 to 12 ins., 5c. Varieties: Elberta, Fair's Beauty, J. H. Hale, GRAPE, Fredonia, 1-year, 6c. CRAPE MYRTLE, bright rose-pink, heavy, 3 to 4 ft., 30c. BUSH HONEYSUCKLE, 4 to 5 ft., 30c; 3 to 4 ft., 25c. JAPANESE QUINCE, Red and Dwarf Orange, 2 to 3 ft., 20c; 18 to 24 ins., 15c. Numerous other shrubs and trees at reduced prices. Write for complete list. Packing free for cash.

BLAN NURSERIES
2704 Armour Ave., Fort Smith, Ark.

HARDY GRAFTED NUT TREES

Crath Carthage, English Walnut, Black Walnut, Butternut, Heartnut. Orders for less than 10 not accepted. Price list on request.

BERNATH'S NURSERY

R. D. 1 Poughkeepsie, N. Y.

CHERRIES, 1-yr. dormant buds, 11/16-in., 4 to 5 ft., 90c each; ¾-in. and up, 4 to 6 ft., \$1.00 each; Montmorency, Early Richmond and English Morello.

BENTON COUNTY NURSERY CO.
Rogers, Ark.

HARDY PLANTS

NEW SUMMER-FLOWERING MUMS

Very hardy, easy to grow—clean. Large, perfectly formed flowers from early August to frost. Excellent for cutting and corsages.

Rooted Cuttings Pot Plants
Per 100 Per 12 Per 100

DEAN KAY SERIES

DEAN KAY IMPROVED.

Rose-pink \$3.00 2.25 13.00

DEAN LADD.

Bronze-red 8.00 2.25 13.00

MY LADY.

Orange-yellow 8.00 2.25 13.00

UNIV. OF MINNESOTA VARIETIES

AURORA, Dragon's 10.00 2.50 15.00

BRILLIANT, New.

Bright Brazil-red 25.00 4.50 30.00

BUTTERBALL.

Lemon-chrome 8.00 2.25 13.00

CHIPPEWA, Large

aster-purple 8.00 2.25 13.00

DEE DEE AHERNS.

Pure white 18.00 3.75 23.00

GLACIER, Extra-

large white 10.00 2.50 15.00

MARON 'N GOLD.

Brazil-red and

yellow 10.00 2.50 15.00

REDGOLD, Scarlet

pompon type 8.00 2.25 13.00

REDHAWK, Brazil-red

8.00 2.25 13.00

SILVER PINK, NEW.

Soft silver-pink 25.00 4.50 30.00

SUNED, Bright red.

8.00 2.25 13.00

VIOLET, Pleasing

pansy-purple 18.00 3.75 23.00

WATERLILY, White.

8.00 2.25 13.00

WELCOME.

Malow-purple 8.00 2.25 13.00

UNIV. OF CHICAGO VARIETIES

BARBARA SMALL.

Lavender-pink 8.00 2.25 13.00

CALENDULA, Chrome-

yellow 8.00 2.25 13.00

HARBINGER, Bronze.

8.00 2.25 13.00

OLIVE LONGLAND.

Apricot-salmon 10.00 2.50 15.00

POLAR ICE.

Fine white 8.00 2.25 13.00

ROBERT BRYDON.

Garnet-red 8.00 2.25 13.00

UNIV. OF NEW HAMPSHIRE MUMS

NASHUA, Reddish-

bronze pompon 10.00 2.50 15.00

SUNAPEE, Rich

gold pompon 10.00 2.50 15.00

Clean, strong rooted cuttings; no orders for less than 25 of one kind; ready now.

Pot plants, ready after April 1; no orders for less than 12 of one kind, please. PACKING AT COST.

CORLISS BROS., INC., NURSERIES

Reynard Street Gloucester, Mass.

SPECIALS ON OUR SURPLUS

Per doz Per 100 Per 1000

Anchusa myosotidiflora \$15.00

Aquilegia Mrs. Scott Elliott 10.00

Gypsophila Bristol Fairy 30.00

Helianthus multiflorus Fl.pl. 12.00

Phlox Mary Louise 10.00

Phlox sub. Bluehill 12.00

Platycodon grand., blue, white 10.00

Plumbago larpenalis 12.00

BEARDSLEE NURSERY, Painesville, O.

GYPHOPHILA BRISTOL FAIRY

We are now booking orders for grafted

Gypsophila Bristol Fairy potted plants; ship-

ping will start as soon as the weather per-

mits in the spring, about April 1.

2½-in. pots \$3.00 2.00 100 Per 1000

25 at 100 rate; 250 at 1000 rate.

BLUE ACRE GARDENS

David L. Guenther

R. R. No. 2, Box 162 Piqua, Ohio

HARDY CHRYSANTHEMUMS

Upright and Cut Flower Types

	Field Divisions	Per 100	Per 1000
Algonquin, fine double yellow.	4.00	\$35.00	
Apollo, Kor., bronze and red.	4.00	30.00	
Astrid, Kor., pink	4.00	30.00	
Burgundy, good cutter, red.	5.00	40.00	
Caliph, D., tall dark red.	4.00	35.00	
Crimson Splendor, Kor. L. red.	4.00	35.00	
Early Yellow, yellow pompon.	4.00	35.00	
Ember, bronze, Late cutter, D.	4.00	35.00	
Evelyn, pink and yellow, D.	4.00	35.00	
Goblin, late, D., bronze.	4.00	35.00	
Jean Treadway, D., pink.	4.00	35.00	
Kristina, Kor., red.	4.00	35.00	
Little Bob, dark red pompon.	4.00	35.00	
Mrs. P. Du Pont, D.,			
peach cutter	5.00	40.00	
Sept. Bronze, bronze pompon.	4.00	35.00	
Siegfried, yellow daisy.	4.00	30.00	
Viking, red daisy.	4.00	30.00	

Cushion and Low Types

Achievement, pink and yellow.	4.00	35.00
Autumn Lights, bronze and red	4.00	35.00
Bronze Cushion	4.00	35.00
Dean Kay, pink	4.00	30.00
Little Eskimo, white pompon.	4.00	35.00
Mari, Mills, peach and red.	4.00	35.00
Pink Cushion	4.00	35.00
Pygmy Gold, yellow button.	4.00	35.00
Red Cushion, Santa Claus.	4.00	35.00
Sept. Cloud, white pompon.	4.00	35.00
Sonny Boy, yellow button.	4.00	35.00
White Cushion	4.00	35.00
White Gull, white pompon.	4.00	35.00

Start Shipping about April 1.

25 of a kind at 100 rate, 250 at 1000 rate.

For larger quantities, write for prices stating your wants. Also for prices on field-grown clumps.

NAGLE'S NURSERY
Benton Harbor, Mich.

We have a good supply of our usual, extra-fine Delphiniums for sale this spring. These plants can be shipped at once as we have a considerable quantity in storage. They will be packed with our famous packing system.

DELPHINIUM SEEDLINGS

	Per 100	Per 1000
Chinese	\$3.50	\$32.25
Chinese Blue Mirror	4.00	38.00
Blackmore & Langdon Hybrids.	4.50	42.75
Vetterle & Reinelt Pacific Hybrids, color group:		
Dark Blue		
Light Blue		
Mixed Shades		
\$5.50 per 100; \$52.25 per 1000.		
Vetterle & Reinelt Pacific Hybrids, named varieties:		
Black Knight		
Blue Bird		
Blue Jay		
Cameliard		
Galahah		
\$6.50 per 100; \$61.75 per 1000.		

Price per 25 is 30% of 100 price. 100 price may be used when 250 or more of one variety or color are ordered.

2-YEAR SELECTED DELPHINIUMS

Vetterle & Reinelt Pacific Hybrids, named varieties:

Cameliard

Galahah Series

Guinevere

Lancelot

Summer Skies

\$10.00 per 100; \$95.00 per 1000.

Price per 25 is 30% of 100 price. 1000 price may be used when 250 or more of one variety or color are ordered.

Send for a copy of our new spring catalog just off the press.

RICHARDS GARDENS

"Old Homestead" Brand Plainwell, Mich.

THE DELPHINIUM OF TOMORROW

LYONDEL GIANT HYBRIDS

Massive Spikes—Stately—Majestic—Colorful.

A new strain especially selected for its large-sized flowers and wide range of beautiful colors. Doubles, semidoubles, singles. Extremely hardy.

Large field-grown plants, \$4.00 per doz., \$25.00 per 100.

CORLISS BROS., Inc., NURSERIES

Reynard Street Gloucester, Mass.

GYPHOPHILA BRISTOL FAIRY

(Field-grown grafts)

Extra-heavy \$12.50 \$45.00 \$425.00

No. 1 10.00 35.00 325.00

ORDER NOW FOR IMMEDIATE OR

SPRING DELIVERY.

THE FLOWER FARM, E. McKeesport 11, Pa.

GYPHOPHILA BRISTOL FAIRY

Our specialty

Top-quality, grafted stock ready now. 2-in.

pots, \$20.00 per 100; \$180.00 per 1000.

DELPHINIUM FIELD SEEDLINGS

Belladonna Imp., \$27.00 per 1000.

Pacific Hybrids, mixed colors, \$35.00 per 1000.

Pacific Hybrids, named varieties: Galahah,

white; Guinevere, lavender; Summer Skies,

light blue.

\$5.00 per 100; \$45.00 per 1000.

2-IN. POTTED STOCK

Per 100

English Ivy \$ 8.00

Baltic Ivy 10.00

Euonymus coloratus 8.00

Buddleia Charming 10.00

Deutzia gracilis 8.00

Deutzia lemoinei 10.00

Philadelphus virginialis 10.00

Daisy, Mt. Shasta 14.00

Columbine, Elliott's Hybrids 8.00

Primula veris 10.00

FIELD DIVISIONS

Hardy Ageratum, E. col. 5.00

Helenium Riverton Gem 6.00

Helianthus Loddon Gold 6.00

Physostegia Rosey Spire 5.00

Daisy White Swan 5.00

HARDY CHRYSANTHEMUMS

25 fine varieties. Send for trade list.

STRATFORD GARDENS, Delaware, Ohio

HARDY ENGLISH CHRYSANTHEMUM

Rooted cuttings, priced per 10

Alabaster, early white \$1.50

Alpink, deep rose 1.25

Border White, large white 1.25

China Gold, golden-bronze 1.25

Gold Standard, large yellow 1.50

Hillcrest Red, red, gold reverse 1.25

Pink Profusion, nice pink 1.25

Pink King, large rose-pink 1.75

Snowball, ball-shaped white 1.25

Sybil, flesh-pink 1.50

Sylvia, salmon-pink 1.75

Tibshel Glory, early deep orange 1.50

Trilix, salmon-apricot 1.75

Unique, strawberry-bronze 1.25

Wardman Bronze, amber-bronze 1.50

White King, good white 1.25

Our own selection—Labeled

10 varieties, 2 of each \$ 2.00

20 varieties, 2 of each 5.00

50 varieties, 2 of each 15.00

Orders filled as soon as possible, in rotation

as received.

A LADYGO

4750 Van Epps Rd. Cleveland 9, Ohio

GERBERAS.

Offer No. 1.

Our regular strain of Gerbera divisions,

well known locally to our customers. Better

than 85 per cent red shades. A very good

Gerbera, in full-size divisions, priced at \$11.00

per 100. Ready now.

No sales less than 100 plants.

Offer No. 2.

This season we are able to offer growers

and nurserymen, who want something better

and choice in Gerberas, the "Hersey Im-

proved Duplex."

We believe this to be the finest florists'

Gerbera, much in demand as cut flowers by

the retail florists, for their large-size blossoms

and long stems. One-year plants, priced at

\$17.00 per 100. Ready now.

No sales less than 100 plants.

L. E. COOKE CO.

HARDY PLANTS—Continued

HARDY CHRYSANTHEMUMS	
Strong potted stock from 2½-in. pots.	
25 varieties, 2 each.....	\$ 6.00
25 varieties, 4 each.....	11.00
25 varieties, 10 each.....	25.00
50 varieties, 2 each.....	12.00
50 varieties, 5 each.....	25.00
50 varieties, 10 each.....	48.50

Write for our wholesale list.

RECK'S GARDENS, Montgomery, Ohio

HARDY OSTRICH PLUME FERNS.
This fern grows well in most soils. Requires only part shade. Grows to height of 2½ to 4 ft., depending on soil. Multiplies by ground runners. A very good store and salesyard item. Order now for May 15 to 20 shipment. Large clumps, \$6.00 per 100. Cash with order. No C.O.D.

J. R. PALMER & SON, Blackduck, Minn.
HEAVY GREENHOUSE-GROWN, 2½-IN. PERENNIALS. Pacific Hybrid Delphinium (6 colors), G. Marconi, Diener's Double and Conqueror Shasta Daisies, Mrs. Scott Elliott Columbine, Grenadin Carnations, Robinson's Pyrethrum, etc. \$10.00 per 100. Free list.

RIEMENSNIJDER'S GARDENS, Sandwich, Ill.

PERENNIALS

New and Standard Kinds.

A most modern and complete selection.

New Wholesale List now ready.

Send for your Free Copy Now.

CARROLL GARDENS

Box 15 Westminster, Md.

BLEEDING HEARTS

Dicentra Spectabilis, 3 to 5..... Per 100

Dicentra Eximia, 3 to 5..... 20.00

Cash with order.

J. HENDRIKS, GROWER, Fortage, Mich.

BLEEDING HEARTS (Dicentra spectabilis), strong, select, well grown roots. Each

3 to 5 eye.....30c

5 to 8 eye.....40c

Pot now for Easter blooming

CASHAR W. EVANS Selbyville, Del.

FINE PERENNIAL PLANTS

THANKS!

for thinking of us.

THE JOSEPH F. MARTIN CO., Inc.

P. O. Box 189 Painesville, Ohio

Send for our list of Hardy Mums now ready. New, Standard and English varieties, including original descriptions and comments.

McNINCH GREENHOUSES St. Joseph, Mo.

HARDY CHRYSANTHEMUMS

Send for our 1948 price list.

Cultural notes on cut flowers and pot plants.

C. C. BREECE

Rt. 2 Delaware, Ohio

140 bundles of Lily of the Valley pipes, 10

pipes to each bundle, \$15.00 cash for lot.

NORTHERN LANDSCAPE NURSERIES

Sheffield, Mass.

HARDY CHRYSANTHEMUMS

Rooted cuttings.

\$5.00 per 100, \$40.00 per 1000.

Send for complete list.

FRENCH CREEK NURSERIES, Avon, O.

PHLOX SUBULATA ROSEA—Strong divisions, \$3.00 per 100, \$25.00 per 1000. Cash

with order, please. FLORAL HILL GARDENS, Rt. 2, Belle Vernon, Pa.

HARDY CHRYSANTHEMUMS

2½-in. potted plants and rooted cuttings.

Potted Mums sell well for spring trade.

FAIRVIEW NURSERY, Coon Rapids, Ia.

ROSEBUSHES

HYBRID TEA ROSES, 2-yr., No. 1, tied

in multiples of 10, 35c each; \$30.00 per 100.

Reds: Red Reliance, Ettoile de Hollande,

Francis Scott Key, Rouge Mallerin, E. G. Hill,

Ami Quinard.

Pinks: Pink Radiance, Editor McFarland,

Betty Uprichard, Columbia.

Whites: K. A. Viktoria, Caledonia,

Golden Dawn, Luxembourg, Golden

Ophelia, Roslyn.

Multicolors: Tallman, President Hoover.

Polyanthas: Ideal, Golden Salmon.

Climbers: Paul's Scarlet, White American

Beauty, Red Radiance, Pink Radiance, Talis-

man.

BENTON COUNTY NURSERY CO.

Rogers, Ark.

ROSEBUSHES—2-year, field-grown plants.

Grown Right—Dug Right—Stored Right—

Packed Right. Proper cultivation, fertilization

and dusting insure quality plants. Dig-

ging and handling equipment mechanized for

efficiency. New completely refrigerated and

air-conditioned cold storage insures plants in

perfect condition for rush shipments any

time. Write for prices and variety list.

C. E. WILSON NURSERIES

Box 1149 Jacksonville, Texas

NO. 3 ROSES

Ideal for potted and lining out.

\$12.00 per 100, \$100.00 per 1000.

See display ad for varieties.

ROSE LAWN NURSERIES

Box 295 Winnsboro, Tex.

ROSEBUSHES

THANK YOU for the best fall business we have ever had. We are prepared to serve you equally well this spring at no advance in price. You will notice that we are sold out on some varieties, but still have a nice assortment if you will not delay in placing your order. Spring list of MARTIN'S Fine Rosebushes.

CLIMBERS

Tallman Paul's Scarlet

Red Radiance Caledonia

K. A. Viktoria Pink Radiance

Mrs. Pierre S. Du Pont

Ideal POLYANTHAS

Golden Salmon

Condesa de Santiago TWO-TONED

Tallman

Pres. H. Hoover Edith Nellie Perkins

Golden Charm YELLOWS

Golden Dawn

Golden Ophelia Luxembourg

Soeur Therese Lady Hillingdon

Roslyn Betty Grace Clark

Mrs. Pierre S. Du Pont

White Radiance WHITE

Caledonia

F. K. Druschki K. A. Viktoria

White American Beauty

RED

Senior Ettoile de Hollande

Radiance Polinsetta

Rouge Mallerin Ami Quinard

Grenoble Sensation

Francis Scott Key Essence

Chas. K. Douglas American Beauty

McGredy's Scarlet

PINK

Editor McFarland Briarcliff

Columbia Pink Radiance

Mrs. Chas. Bell Betty Uprichard

Dainty Bess Margaret McGredy

Paul Neyron Cynthia

WHOLESALE PRICES: No. 1, 35c each in

lots of 100 or more; 30c each in lots of 1000

up. No. 1½, 27½c each in lots of 100 or

more; 25c in lots of 1000 up. No. 2, 22½c

each in lots of 100 or more, 17½c in lots of

1000 up.

TERMS: 25 per cent deposit with your

order, balance C.O.D. (Sold only in multiples

of 10 of a grade and variety.)

MARTIN'S ROSE NURSERY

P. O. Box 155, Rt. 1 Arp, Texas

ROSES

2-year, No. 1, field-grown

\$4.50 per 10, \$40.00 per 100.

HYBRID TEAS

Ami Quinard K. A. Viktoria

Betty Uprichard Lady Hillingdon

Caledonia Luxembourg

Condesa de Santiago Margaret McGredy

Dame Edith Helen Mrs. Chas. Bell

Edith Nellie Perkins Mrs. P. S. Du Pont

Editor McFarland Pres. H. Hoover

Ettoile de Hollande Radiance, Pink

E. G. Hill Radiance, Red

Golden Dawn Sunburst

Tallman

HYBRID PERPETUALS

American Beauty

Francis Scott Key

McGredy's Scarlet

POLYANTHAS

Katharina Zeimet

Orleanas

Edith Cavell

Golden Salmon

Ideal

American Beauty

Dr. W. Van Fleet

Ettoile de Hollande, Cl. Tallman, Cl.

WAYNESBORO NURSERIES

Waynesboro, Virginia

ROSEBUSHES

25,000 finest field-grown No. 1, Rosebushes

budded on Multiflora Japonica; grown in

fresh soil; thoroughly cultivated and dusted

with copper-sulphur dust.

All bushes are liberally graded: Texas-

certified and disease-free. Best forcing

varieties including Red Radiance, Pink Radi-

ance, Ettoile de Hollande, Editor McFarland,

Soeur Therese, K. A. Viktoria, Grenoble,

Tallman and other outstanding varieties.

Special grower's offer: Lot of 25,000 Rose-

bushes at 20c each. Write for prices on

smaller quantities.

SAM HEABERLIN

Nacogdoches, Texas

SEEDS

SURPLUS TREE SEEDS

Redbud.....1.25 Per lb. Per 100 lbs.

Sweet Gum.....4.25 35.00

Russian Mulberry.....3.25 30.00

Thornless Honey Locust.....1.00 8.50

Kentucky Coffee Tree......25 2.00

Cash please. Write for quantity prices.

RIGDON'S TREE SEEDS, Stillwater, Okla.

SEEDS

Taxus Cupidata

We offer new crop direct from Japan. Let

us know the quantity you require.

AMERICAN BULB CO.

1335 W. Randolph St.

Chicago 7, Illinois

25,000 Shrubs; 100,000 8-in. Cuttings; 1000

lbs. Kentucky Coffee Beans, 25c per lb.;

Sycamore platanus, 40c; Allanthus, 50c;

Catalpa, 90c.

SCHROEDER NURSERY CO.

Granite City, Ill.

SEEDS

Diospyros virginiana (American Persimmon), 1947 crop, clean seeds, \$1.75 per lb., prepaid, Cash on order.

PRITCHARD NURSERIES

Ottawa, Kan.

SHRUBS and TREES

ROOTED CUTTINGS TRANSPLANTED

(OUT BEDS)

Per 100 Per 1000

Retinospora pls. plumosa.....\$15.00

Retinospora pls. plumosa.....15.00

aurea.....125.00

Thuja occidentalis hoveyi.....15.00

Thuja occidentalis compacta.....15.00

Taxus cuspidata (spreading).....15.00

Taxus cuspidata (upright).....17.50

Taxus cuspidata media.....17.50

Taxus cuspidata brevifolia.....17.50

Taxus canadensis, tr.....15.00

Deutzia gracilis.....5.00

Deutzia lemoinei.....5.00

White Snowberry.....4.00

Red Snowberry.....4.00

Foraythia suspensa.....4.00

Foraythia intermedia.....4.00

Philadelphus coronarius.....4.00

Hydrangea P. G.....6.00

SEEDLINGS

13 ins.

3.00 25.00

Amelopsis veitchi, 12 to

15 ins. 1.50 10.00

Amelopsis veitchi, branched.....7.50

Cydonia japonica, 9 to 15 ins. 3.50 30.00

Cydonia japonica, short.....2.00

Cydonia japonica, 15 to 21 ins. 7.50

Ulmus americana, seedlings

1-yr. 2.50 20.00

Berberis thunbergi, 3 to 6 ins. 2.50 20.00

Berberis thunbergi, 6 to 9 ins. 3.50 30.00

Berberis thunbergi, 9 to 12 ins. 5.00 45.00

Berberis thunbergi (red

leaved), 3 to 6 ins. 2.50 20.00

Berberis thunbergi (red

leaved), 6 to 9 ins. 4.00 35.00

Berberis thunbergi (red

leaved), 9 to 12 ins. 7.50

Juniperus pfitzeriana, 2½-in.

pots 25.00

Juniperus pfitzeriana, rooted

cuttings 15.00

Taxus cuspidata (spreading)

cuttings 10.00 90.00

Taxus cuspidata (upright)

cuttings 10.00 90.00

Taxus cuspidata brevifolia

cuttings 12.50 100.00

Retinospora plumosa, cuttings 9.00

Retinospora plumosa aurea,

cuttings 9.00 75.00

BROWER'S NURSERIES

Box 25, 624 Montauk Ave., New London, Conn.

LINING-OUT STOCK

Grafted stock, 2½-in. May shipment.

Per 100

Acer pal. atrop.....\$ 75.00

Acer dia. atrop.....75.00

Cornus florida rubra.....50.00

Pinus strobus nana.....50.00

Pinus cembro.....50.00

Ret. obt. nana gracil.....50.00

Tsuga sargentii.....50.00

1-yr. bedded outside

Per 100 Per 1000

Ilex crenata.....\$ 30.00 \$275.00

Ilex bullata.....30.00

Franklinia alatamaha.....75.00

Juniperus dep. plus, 1-yr. S. 20.00

Taxus bickel.....15.00

Taxus hatfieldi.....17.50

Taxus cuspidata.....15.00

Taxus capitata.....25.00

Taxus brevifolia.....20.00

Taxus can. stricta.....16.00

Taxus densa.....16.00

Seedlings and Transplants.

Per 100 Per 1000

Abies douglas, 2-yr. S. 4.00 35.00

Abies balsamea, 2-yr. S. 4.00 35.00

Cryptomeria jap., 1-yr. S. 2.50 20.00

Picea excelsa, 2-yr. S. 2.50 15.00

Picea pungens, 2-yr. S. 3.50 30.00

ROOTED CUTTINGS, WHOLESALE ONLY

Per 100	Per 100
Cupressus allumi	\$10.00
Juniperus stricta	10.00
Juniperus plumosus aurea	10.00
Andorra Juniper	10.00
Upright Yew	12.00
Spreading Yew	12.00
Norway Spruce, 4-yr. sdigs.	10.00
Red Spruce, 4-yr. sdigs.	10.00
Irish Juniper	10.00
Globe Arborvitae	10.00
American Arborvitae	10.00
Pyracantha	10.00
Hemlock, 12 to 18 ins. from seeds	18.00
Red Cedar, 12 to 18 ins. from seeds	18.00
Weeping Willow	6.00
Forstythia spectabilis	6.00
California Privet	3.00
Pussy Willow	3.00
Red-bark Dogwood	5.00
Hydrangea P.G.	5.00
Blue Hydrangea	10.00
Wegelia Eva Rathke, red	10.00
Wegelia, pink-flowering	5.00
Deutzia, white-flowering	5.00
Mock Orange (Philadelphus)	5.00
Silver Maple, 1-yr. sdigs.	5.00
Norway Maple, 1-yr. sdigs.	5.00

Kindly send cash with order.
Plenty of large evergreens, flowering shrubs, shade trees, azaleas and fruit trees at very low prices for man that can haul them in his own truck. Also half-rotted oak leaves, \$16.00 per ton. I only ship out bare-rooted stock by mail or express.

WILLIAM E. WENTZELL
Cattell Rd. Wenonah, N. J.

Per 100	Per 100
BALTIC IVY, 4 to 6 ins., flats	\$10.00
4 to 6 ins., flats	15.00
EUONYMUS PATENS, 6 to 9 ins., X	12.00
PEONIES, 3 to 5-eye divisions	25.00
Edulis Superba, pink	25.00
Chas. McCullip, red	25.00
Mary Brand, red	30.00
Louis Van Houtte, red	25.00
POPLAR, LOMBARDY, 3 to 4 ft.	\$7.50
4 to 5 ft.	\$65.00
PRIVET, AMUR RIVER NORTH, 9 to 12 ins.	4.50
12 to 18 ins., 2 and 3 canes	5.50
18 to 24 ins., 2 and 3 canes	6.50
PRIVET, REGEL, true, from cuttings, 12 to 18 ins., heavy	22.00
18 to 24 ins., heavy	22.00
WALNUT, BLACK, 12 to 18 ins.	3.50
18 to 24 ins.	4.50
2 to 4 ft.	5.50

NEBRASKA NURSERIES, INC.
4815 "O" St. Lincoln 8, Nebr.

ROSES—2-yr., No. 1, 2 to 3 ft., \$30.00 per 100; 500 Cl. Paul's Scarlet, 300 Cl. K. A. V. 100, 200 Cl. Dr. Van Fleet, 300 Cl. (Blue Rose Veilchenblau, 500 F. K. Druschki, 500 Mrs. John Laing and 300 George Arends.	
PUSSEY WILLOWS—2-yr., well rooted, well branched, 12 to 18 ins., \$8.00 per 100; 18 to 24 ins., \$12.00 per 100; 3 to 4 ft., \$20.00 per 100.	
LOMBARDY POPLAR—1-yr., well rooted, well branched, 3 to 5 ft., \$10.00 per 100; 5 to 6 ft., \$12.00 per 100.	
ROSA MULTIFLORA JAP., thornless, 9-in. cuttings, \$8.00 per 1000.	
ROSA MULTIFLORA JAP., 9-in. cuttings, seedlings, well rooted, well branched; 3 to 6 ins., \$5.00 per 100, \$25.00 per 1000.	
SHRUBS, 2 to 3 ft., \$20.00 per 100. Spiraea vanhouttei, Korean spiraea, Spiraea arguta, Forsythia, Philadelphia coronarius (Mock Orange), Red-branched Dogwood, Tatarian Honeysuckle, Pink and White.	
CATALPA BUNGEI—3-yr. heads, 5 to 7 ft., \$20.00 per 10.	
FINGER LAKES NURSERIES, Geneva, N. Y.	

Per 1000	Per 1000
Berberis thunbergi, 2-yr. sdigs. T. (field rows)	\$ 60.00
Berberis thunbergi atropurpurea, 2-yr. sdigs. T. (field)	80.00
Cornus kousa, 4-yr. T., 2 to 2 1/2 ft. (field rows)	300.00
Cydonia japonica, 2-yr. T., 4 to 6 ins.	50.00
Pieris japonica, 2-yr. T., 4 to 6 ins.	250.00
Taxus cuspidata, spreading, 3-yr. T.	300.00
Taxus cuspidata, spreading, 2-yr. T.	200.00
Taxus cuspidata, upright, 2-yr. sdigs.	300.00
Taxus media hicksii, 2-yr. T.	250.00
Thuja occidentalis nigra, 2-yr. T.	250.00
Thuja occidentalis pyramidalis, 2-yr. grafts, 2 to 2 1/2 ft.	500.00
Viburnum dilatatum, 1-yr. sdigs.	45.00
Samplis Viburnum dilatatum and Taxus, upright on request.	
BOULEVARD NURSERIES, Newport, R. I.	

Per 1000	Per 1000
Berberis thunbergi, 1-yr. sdigs., 3 to 5 ins.	\$10.00
Berberis thunbergi atropurpurea, 1-yr. sdigs., 3 to 6 ins.	25.00
3 to 6 ins.	40.00
Packing at cost. No charge for packing when cash is sent with order.	
GULF STREAM NURSERY, INC. Wachapreague, Va.	

Per 100	Per 100
Red-leaved Barberry (B. Atrop.) 6 to 9 ins., br., 1-yr. sdigs.	\$ 4.50
9 to 12 ins., br., 1-yr. sdigs.	7.50
9 to 12 ins., well br., 2-yr. trans.	12.00
12 to 15 ins., well br., 2-yr. trans.	16.00
Green-leaved Barberry (B. thunbergi) 9 to 12 ins., well br., 2-yr. trans.	8.00
12 to 15 ins., well br., 2-yr. trans.	12.00
15 to 18 ins., well br., 2-yr. trans.	16.00
We will have the best of field-grown roses on multiflora for fall, 1948. We sell only what we grow, and we grow only the best.	
Packing at cost, or free for cash with order.	
DANEGGER'S HI WAY NURSERY Milford, Delaware	

Per 1000	Per 1000
Berberis thunbergi, 2-yr. sdigs. T. (field rows)	\$ 60.00
Berberis thunbergi atropurpurea, 2-yr. sdigs. T. (field)	80.00
Cornus kousa, 4-yr. T., 2 to 2 1/2 ft. (field rows)	300.00
Pieris japonica, 2-yr. T., 4 to 6 ins.	50.00
Taxus cuspidata, spreading, 3-yr. T.	300.00
Taxus cuspidata, spreading, 2-yr. T.	200.00
Taxus cuspidata, upright, 2-yr. sdigs.	300.00
Taxus media hicksii, 3-yr. T.	300.00
Taxus media hicksii, 2-yr. T.	250.00
Thuja occidentalis nigra, 2-yr. T.	250.00
Thuja occidentalis pyramidalis, 2-yr. grafts, 2 to 2 1/2 ft.	500.00
Viburnum dilatatum, 1-yr. sdigs.	45.00
Samplis Viburnum dilatatum and Taxus, upright on request.	
BOULEVARD NURSERIES, Newport, R. I.	

Per 100	Per 100
Ret. plum. aurea, 2-yr. tr.	\$20.00
Taxus cuspidata hicksii, 2-yr. tr.	150.00
2-yr. tr.	30.00
Th. occ. pyramidalis, nigra, woodwardi (Globe), 2-yr. tr.	250.00
Fr. Hyb. Lilac Michel Buchner, D., 1-yr.	30.00
Fr. Hyb. Lilac Pres. Grevy, D. Blue, 1-yr.	25.00
French Lilacs in 30 varieties, root grafts	16.00
All of the above stock ready for field rows.	
DEERFIELD NURSERIES Deerfield Street P. O., N. J.	

California Privet, 2-yr. row-run, 2 to 5 ft., heavily branched, \$60.00 per 1000. Write for quantity prices and delivery arrangements in our truck. No shipping.

Per 100	Per 100
French Lilacs, 1-yr. grafts	\$25.00
winter grafts	15.00
Calif. Privet, 7-in. hdwd. ctgs.	\$ 2.50
Blota Orientalis, 1-yr. sdigs., 3 to 5 ins.	25.00
1-1 transplants, 6 to 12 ins.	60.00

Per 100	Per 100
2 to 3 ft., s.	\$ 5.00
4 to 6 ft., br.	15.00
6 to 8 ft., br.	25.00
8 to 10 ft., w. br.	75.00
1-in. caliper, w. br.	100.00
UNADILLA NURSERY CO. Johnson City, N. Y.	

Per 100	Per 100
Berberis thunbergi 1-yr. adig., 9 to 12 ins.	\$25.00
In 1000 lots.	22.50
In 5000 lots.	20.00
In 10,000 lots.	20.00
6 to 9 ins.	
Deduct \$5.00 per 1000 from above lot prices.	
Spring 1948 delivery.	
L. P. BRICK NURSERIES Painesville, Ohio	

Per 100	Per 100
Berberis thunbergi LINERS 2-yr., br., 9 to 12 ins.	\$5.00
2-yr., br., 12 to 15 ins.	7.50
1-yr. sdigs., 6 to 9 ins.	2.00
1-yr. sdigs., 9 to 12 ins.	3.00
DE WINTER'S NURSERY Route 1 Grandville, Mich.	

Per 100	Per 100
CHINESE ELMS 3 to 4 ft.	\$5.50
2 to 3 ft.	3.00
18 to 24 ins.	2.50
12 to 18 ins.	1.75
6 to 12 ins.	1.00
CLINTON NURSERIES & GREENHOUSES Clinton, Okla.	

BROWN BROS. CO. Brighton Sta. Rochester 10, N. Y.
Growers of a general line of nursery stock, including northern-grown Roses. Write for trade list.
PYRACANTHA Rogers, red-berried, and Lalandi, orange-berried; 2 to 3 ft., B&B, \$20.00 per 10, \$175.00 per 100; 3 to 4 ft., \$27.50 per 10, \$250.00 per 100.
WAYNEBORO NURSERIES Waynesboro, Virginia

VIBURNUM RHYTIDOPHYLLUM, B&B, 2 to 3 ft., \$20.00 per 10, \$175.00 per 100; 3 to 4 ft., \$27.50 per 10, \$250.00 per 100; 4 to 5 ft., \$35.00 per 10, \$300.00 per 100.
WAYNEBORO NURSERIES Waynesboro, Virginia

ROSA MULTIFLORA CUTTINGS, both thorny, for living fence, and thornless, \$8.00 per 1000. Also a few heavy, thornless, 3-year field plants, \$20.00 per 100.
ELAN NURSERIES 3704 Armour Ave. Fort Smith, Ark.

VEGETABLE PLANTS

WHOLESALE PRICE LIST, 1948

Plant variety	Date Ready	Per 1000
Cabbage	Now	\$1.50
Onion	Now	1.25
Lettuce	Now	3.00
Beets	April 1	2.00
Broccoli	April 1	2.00
Cauliflower	April 1	7.50
Peppers	April 15	3.50
Eggplants	April 15	3.50
Tomato	April 15	3.00
Sweet Potato	April 15	3.50

All above prices F.O.B. Albany.
Leading varieties.
Large, fresh plants. Prompt shipment.
Write or Wire
PIEDMONT PLANT CO.
Box 946 Albany, Ga.

VEGETABLE ROOTS

WASHINGTON ASPARAGUS ROOTS
No better green Asparagus. This variety famous in N. J. fields. Next to California in Asparagus production, N. J. is the logical section in which to buy Washington Asparagus roots. 2 years, \$2.50 per 100, \$15.00 per 1000; 3 years, \$4.50 per 100; \$22.00 per 1000.
Also Rhubarb and Horae-radish roots.
WARREN SHINN'S NURSERY Woodbury, N. J.

MARY WASHINGTON ASPARAGUS—15,000 large, strong, healthy, northern-grown, 3-year-old roots. Dug and shipped in April. Tied 25 per bunch. Wholesale: \$4.00 for 100, \$8.00 for 250, \$15.00 for 500, \$25.00 for 1000.
LAKESIDE GARDENS Pine City, Minn.

CALIFORNIA ASPARAGUS ROOTS
Our roots are grown from seeds from the famous California fields. California grows more Asparagus than all the other states combined. 2 yrs. old, \$4.00 per 100, \$24.00 per 1000.
WARREN SHINN'S NURSERY Woodbury, N. J.

Victoria Rhubarb roots, in storage, 1/4 to 1/2 in., \$15.00 per 1000; 3/4 to 1 1/2 in., \$7.50 per 1000. Mary Washington Asparagus, 2-yr., No. 1, \$13.00 per 1000. Boxings free. Order early and don't be disappointed.
ASHCRAFT'S PLANT NURSERY Copemish, Mich.

HORSE-RADISH ROOTS
Jersey-grown, \$11.00 per 1000. Also Rhubarb roots.
WARREN SHINN'S NURSERY Woodbury, N. J.

CHIVES—Nice clumps, \$5.00 per 100, \$40.00 per 1000.
WARREN SHINN'S NURSERY Woodbury, N. J.

MISCELLANEOUS

Heather, 1-yr., frame, X, 4 to 6 ins., \$19.00 per 100, \$150.00 per 1000; 500 Med. Hybrid, 400 cinerea purple, 300 Med. tall pink, 1500 carnea rosea, X, 1-yr., \$19.00 per 100, \$170.00 per 1000, 4700 Azalea mollis yellow, S, X, \$17.00 per 100, \$150.00 per 1000, 2000 Azalea mollis, dark salmon, S, X, \$14.00 per 100, \$120.00 per 1000, 300 Thuja occ. pyramidalis, 6 to 9 ins., 2-in. cups, 25c each; 500 Thuja occ. pyramidalis, 4 to 6 ins., 2-in. cups, 25c each.
Camellias, X, 1-yr. cuttings, 2-in. cups; Pink Perfection E., 25c each; Double white, striped red, 35c each; Alba Plena Improved, 5c each; Herme, 50c each.
Items above for immediate delivery.
Azaleas, C, X, 3 to 5 ins., \$17.50 per 100, \$150.00 per 1000; 7000 Hinodigri, 3500 Macrantha Lovett, 1000 Macrantha, Tall, 1500 Daphne cneorum, 3 to 5 ins., \$25.00 per 100, \$200.00 per 1000, 1500 Andromeda (Pieris), 3 to 5 ins., \$20.00 per 100, \$180.00 per 1000, 500 Camellia Cheerful, X, 2-in. cups, 1-yr. cuttings, 25c each.
Cash with order, crating at cost, F.O.B. nursery.
FOUR STAR NURSERY Rt. 3, Box 3529 Edmonds, Wash.

ATTENTION
This is to acknowledge that Mr. John Bos was formerly affiliated as a partner in the Bay City Nurseries, Bay City, Mich. Some time ago this partnership was dissolved, and Mr. Bos is no longer connected in any way with the firm of Bay City Nurseries. All mail for the firm should be addressed to Bay City Nurseries, 1715 Columbus Ave., Bay City, Mich.

MISCELLANEOUS—Continued

1947 PEACH SEEDLINGS for budding or grafting; about 1 to 2 ft., \$25.00 per 1000; \$225.00 per 10,000. Black Walnut seedlings, large variety, \$75.00 per 1000. Ligustrum japonicum seedlings, 3 to 6 ins., \$5.00 per 100, \$45.00 per 1000; 8 to 10 ins., \$8.00 per 100, \$75.00 per 1000; seeds, 75¢ per lb. Amur River hedge plants and seeds, same price. English Dogwood, Forsythia, Spiraea, 2 to 3 ft., branched, \$20.00 per 100, \$175.00 per 1000.

RIVERDALE NURSERIES
Riverdale, Ga.

WHOLESALE AND RETAIL
Camellia japonica, good and rare varieties. Exquisite Daphne odora, pink and white. Regal Lily, bulbs and seeds.

Prices on request.

ROY WILKINS NURSERY
Newburg, Ore.

Dunlap Strawberry Plants, irrigated, freshly dug, \$7.00 per 1000; \$6.50 in lots of 10,000. Also, heavy, 2-yr. Asparagus Roots, freshly dug; \$2.50 per 100, \$10.00 per 500, \$15.00 per 1000.

Horse-radish crowns, \$15.00 per 1000.
RILEY'S NURSERY Concordia, Kan.

Cumberland Raspberries, No. 1 tips, \$3.50 per 100; \$30.00 per 1000. Boxwood sempervirens and suffruticosa, rooted cuttings, \$5.50 per 100; \$50.00 per 1000.

BLUE RIDGE GARDENS
Roanoke, Va.

Extra-nice Latham Raspberries, No. 1, \$4.00 per 1000. Black Hills Spruce, 8 to 15 ins., T., \$25.00 per 100, Douglas Fir, 6 to 8 ins., T., \$10.00 per 100.

TREADWELL NURSERY CO.
Great Falls, Mont.

SUPPLIES

A PURE SEDGE PEAT, sun-cured, air-dried, analyzed 2 to 2½ per cent nitrogen, 96 per cent humus, acidity 5-3 to 5-8. Used by state nurseries, greenhouses and landscape gardeners since 1933. Not to be confused with muck soils called peat. Mel-lo Peat is analyzed for your protection. The state of Ohio Dept. of Forestry purchased 6,300 bushels for its nursery; a good recommendation for Mel-lo. We delivery in truck-load lots within 200 miles of our plant. Write for prices. Order early. Check with order.

5 to 10 2-bu. bags, F.O.B. our plant.....	\$1.25
11 to 50 2-bu. bags, F.O.B.	1.10
51 to 100 2-bu. bags, F.O.B.	1.00
101 to 200 2-bu. bags, F.O.B. ....	.90

Shipping to 43 states and Alaska, which proves Mel-lo Peat must be good. Excellent for lawns, gardens and shrubs, snapdragons, azaleas, hydrangeas, cyclamens, camellias, gladioli, carnations, polyanthuses and many other plants. Be safe with Mel-lo.

MEL-LO PEAT CO., Willard, Ohio

PROPAGATING KITS FOR GROWERS

Again available for propagating benches in the following units complete with soil thermostat, pilot lamp, all-glass thermometer and long-life HEATSUM CABLE, the product of 13 yrs' research in our greenhouses.

Unit Sq. Ft.	Wattage	Voltage	Length & Price
Heated No. units			
"A" 20	200	120 1—	60 ft. \$14.95
"B" 40	400	120 2—	60 ft. 18.85
"C" 60	600	120 3—	60 ft. 23.50
"D" 80	800	120 4—	60 ft. 27.65
"E" 150	1500	120 1—	500 ft. 32.70
"F" 300	3000	240 1—	1000 ft. 52.50

For Stainless Steel instead of glass soil thermometer with any of the above kits, add \$2.25.

Stainless Steel Soil Thermometer.....\$4.75
All prices F.O.B. Seattle.
L. N. ROBERSON CO.
1539 East 103rd St. Seattle 55, Wash.

KNOCK-DOWN PLATS

Made from a good grade of Southern Yellow Pine, since Cypress is not available. Standard specifications, inside measurements.

16x12x2½	.....	\$16.25 per 100
16x14x2½	.....	20.50 per 100
20x14x2½	.....	20.00 per 100
20x14x3½	.....	23.00 per 100
22½x15x2½	.....	22.00 per 100
22½x15x3½	.....	26.00 per 100

All other sizes quoted on request. Prices F.O.B. Birmingham.

We are manufacturers, not jobbers. Freight to any point is a small item per Flat. Our Plats are the best. Why pay more? Our quality guaranteed. Prompt shipment, any quantity. Attach check to order.

HIGHTOWER BOX & TANK CO.
Birmingham, Ala.

FINE-SCREENED DOMESTIC PEAT.

Acid pH 4-8. Some Nitrogen.
Our peat is excellent for lawns, cold-frames, perennial seedbeds and preparing soil for evergreen and shrubby plantings.

1 to 4 bags.....	\$2.00
5 to 24 bags.....	1.00
25 to 49 bags.....	.95
50 to 100 bags.....	.90

Write for price on bulk carload. We ship same day order is received. Order early. Cash, please.

HAASE BROS.
2516 California Ave. Peoria, Ill. P. O. Box 386

GET READY FOR SUMMER

NOW IS THE TIME

Build new low-cost shade houses, or replace your old worn-out lath or slat houses with BRAND NEW LOW-COST Heavy Steel Wire Camouflage Netting. Write for descriptive folder and prices to cover any amount of this material you may need from one roll to carlot shipments.

H. M. OWEN or E. A. FARLEY
P. O. Box 946 3323 Gentilly Blvd.
Columbus, Miss. New Orleans, La.

BEAN POWER SPRAYER for tractor power take-off, for row-crop spraying. Last prewar model; 150-gal. tank, 4-row spray boom, 4-cylinder pump. Royal oil bath for 300 lbs. or more pressure.

Peter J. Booy Nurseries, Mendham, N. J.
Contact:
DONBERT NURSERIES, Mendham, N. J.

MINNESOTA WHITE CEDAR PLATS.
12x16x2½ \$18.25 per 100
14x20x2½ 22.00 per 100
14x20x3½ 25.00 per 100

Other sizes quoted on request. Also crating and other lumber, Aspen and Pine. F.O.B. Cook, Minn. Attach check.

H. C. HILL & SONS, Cook, Minn.

PEAT MOSS

Highest-quality acid sphagnum peat moss weighing about 8 lbs. per loose bushel. 120-lb. hydraulic-compressed bales, \$3.25 each; 10 or more bales, \$3.00. Large burlap half-bale bags, \$1.50 each; 10 or more, \$1.50 each.

COLBY PIONEER PEAT CO., INC.
Hanlontown, Iowa

HIGH NITROGEN HORTICULTURAL PEAT
Unexcelled for soil-improving work. Used by leading growers for a quarter century.

One 3-bushel bag, \$1.25; 10 bags, \$1.15; 25 bags or more, \$1.00.

COLBY PIONEER PEAT CO., INC.
Hanlontown, Iowa

FOR SALE—Three-wheel type Tractor (Oliver 70, 1936 model) on rubber, carefully used and in A-1 shape; with 2-row cultivator, disk harrow, single plow, orchard cultivator, U digger and a 150-gal. sprayer (Bean). Total price, \$1,700.00. PETER J. BOOY NURSERIES, Contact DONBERT NURSERIES, Mendham, N. J.

NURSERY REQUISITES
Budding, Grafting Supplies, "TRE-TEX," Hydrometers, Hygrometers, Magnifiers, Pruning and Spraying Equipment, Ladders.
Catalog on request.
Since 1900

TYSON ORCHARD SERVICE
Flora Dale (Adams County), Pa.

WISCONSIN'S QUALITY SPHAGNUM MOSS.

Clean, long-fibered, solidly packed in burlapped or wired bales of standard size, direct from drying beds. None better.

Trucked when feasible.
WARRENS MOSS CO., Box 7, Warrens, Wis.

TUNG NUT MEAL

BEATS COTTONSEED MEAL
100-lb. sack \$2.50
Over 200 sacks, per 100-lb. sack 2.05
F.O.B. Nursery.

STOVALL NURSERY, Leakesville, Miss.

Dry, practically everlasting, White Cedar Poles for low-cost shade houses. 7-ft. pole, 2-in. top, at 15¢ each, F.O.B. Materials for 35x40-ft. shade houses only \$109.00.

ANDERSEN'S NURSERY
Scottville, Mich.

PRINTING

Letterheads, billheads, statements, cards, envelopes, tags, blotter folders, catalogs, samples. Send copy for estimate.
J. GARLAND HILL, Dept. A, Seaford, Del.

GIBRALTAR Frost Covers pay for themselves. Economical, long-lasting, ideal for windbreaks. 6 ft. wide; 50 ft., \$13.75; 100 ft., \$26.00; 150 ft., \$39.00. NEW AMSTERDAM IMPORT, 122 Chambers St., New York 7, N.Y.

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Monday—two weeks before date of issue.
Don't miss an issue by sending copy late!

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Flowering Shrubs, Evergreens and Vines for Spring retail sales.
Do you have a buy? We pay cash.
Address Box 536, care of American Nurseryman.

WANTED

100, 2 to 5-ft. Hybrid Rhododendrons, named varieties, tag, blotter folders, catalogs, samples. Send copy for estimate.
CHESTER H. SADLER CO.
129 Ohio River Blvd.
Emsworth - Pittsburgh 2, Pa.

WANTED

Douglas Fir Seeds
JOHN RICK
438 Penn St. Reading, Pa.

Increase your business by offering needed stock and supplies through the Classified Ads.

OHIO SHORT COURSE.

[Continued from page 14.]

was unable to be present, and his paper was read by John Michalko, of the same division. The paper was on the subject of "Mist Blowers Versus Hydraulic Sprayers."

Mr. Michalko said that for street spraying there is no debate on the type of equipment to be used. The mist sprayer using a DDT concentrate, which encounters none of the operational hazards of the hydraulic machine, such as parked cars, dragging hose and the necessity of operating with men afoot, is the answer to the control of insects over long narrow areas, such as those presented on city streets.

Better control of tussock moth, regardless of the stage of development of the larvae, is obtained with airborne DDT than with water-borne arsenate of lead.

Comparative data on costs were given with the caution that these data were from a governmental operation and that no data were available that would include the many additional costs that must be met by the private businessman. At least, no effort had been made to determine costs of office overhead, insurance, taxes, amortization of equipment and advertising.

Employing the mist sprayer, 18,547 trees were sprayed, which included 312 miles actually sprayed, and 655 gallons of twelve per cent liquid DDT at \$1.65 per gallon were used at a cost of \$1,080.75. In addition, 655 gallons of kerosene at 13½ cents per gallon, a total of \$86.79, were used; three men were employed for twenty-four days at an expense of \$720, and a truck and blower were required for twenty-four days at \$48. The total expense amounted to \$1,935.54; the cost per tree was 10½ cents, with an average of 257½ trees per man and an average for the 3-man crew of 772½ trees per day.

Employing the hydraulic sprayer, 26,483 trees were sprayed, which included 427 miles actually sprayed, and 2,607 pounds of arsenate of lead were used at 23¾ cents per pound, or a cost of \$5,953.75. In addition, five gallons of sticker at \$5.25 per gallon, a total of \$26.25, were used; five men were employed for sixty-five days at \$10 per man per day, or \$3,250, and a truck and sprayer were required for sixty-five days at \$2 per day, or a total of \$130. The total expense amounted to \$9,360. The cost per tree was 35 cents, with an average of eighty-one and one-half trees per man and an average for the 5-man crew of 407½ trees per day.

Mr. Michalko said that, unquestion-

ably, there are materials which are impossible to apply with a mist blower at the present time—oils, for example. However, for insect control on city streets the mist sprayer is firmly established, and within a short time undoubtedly every city shade tree and park division will be equipped with this timesaving, complaint-eliminating, result-producing machine.

Dr. Paul E. Tilford, Wooster, O., gave a talk on "Shade Tree Values," which will be published in full in a forthcoming issue.

Elm Diseases in Ohio.

Dr. Roger U. Swingle, of the division of forest pathology, United States Department of Agriculture, Columbus, O., and R. R. Whitten, of the bureau of entomology and plant quarantine, United States Department of Agriculture, Columbus, O., spoke on "Up-to-date Information on Elm Troubles in Ohio."

Dr. Swingle stated that phloem necrosis is still spreading in Ohio but is well confined to the southern half of the state. The Dutch elm disease has spread rapidly during the past year. Elm mosaic has become one of the major elm diseases and is more widespread than was at first thought. The Dutch elm disease is becoming serious at and around Cincinnati and other areas of the state.

Diagnosis requires making cultures in the laboratory because the symptoms of Dutch elm disease are practically identical to those of verticillium wilt and elm dieback. Laboratory cultures are of no value in identifying phloem necrosis, however. Its identification is based on examination of the tree on the spot.

Dr. Swingle also showed pictures illustrating the various diseases and the methods of identifying them. There were other pictures showing the experiments that are being made with chemotherapeutic injections and the work that is being done to breed disease-resistant elms for the control of phloem necrosis. The work thus far indicates that once a tree shows symptoms of phloem necrosis, injections with sulphur compounds are of no value. About 1,500 trees have been propagated from Kentucky elms that have been highly resistant to phloem necrosis. However, it is now necessary to develop trees that are resistant to both phloem necrosis and Dutch elm disease, and an attempt to obtain such resistance is now being made.

Discussing elm diseases from the standpoint of the entomologist, Dr. Whitten said that the fungus causing Dutch elm disease was carried by the smaller European elm bark beetle and the native elm bark beetle. The control of this disease is dependent on

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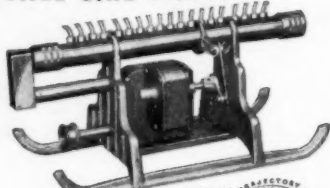
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the control of these bark beetles. Both breed only in recently cut dead or dying elm trees. Elm trees killed by phloem necrosis make ideal breeding habitats for these beetles, and the spread of Dutch elm disease has been rapid in those areas where both of these elm diseases occur.

Since the flight range of the smaller European elm bark beetle is known to be at least several miles, it readily can be seen that this method of control must be applied to large areas, such as entire towns, counties or even states, in order to reduce effectively the great number of these insects. DDT applied so as to cover thoroughly the bark surface has effectively prevented these bark beetles from feeding. Emulsion-type sprays containing two per cent DDT have produced residues that have prevented feeding for more than three months. However, suspensions, such as the wettable DDT powders containing the same strength DDT, were found to be effective for much shorter periods, often less than thirty days.

Dr. Whitten stated that the insect two per cent DDT emulsion be applied before the foliage appears in the spring in order to obtain the necessary bark coverage. A second application should be made three months after the first one. Since the residue from the first application remains partially effective for the entire season, the concentration of DDT in the second application can be reduced to one per cent.

Dr. Whitten stated that the insect recently found to be capable of transmitting the virus causing phloem necrosis is a leaf hopper that has been identified as *Scaphoideus luteolus*. This insect is distributed throughout the phloem necrosis area and also has been found in some eastern and southern states where phloem necrosis is not yet known to be present.

Since the first positive case of insect transmission of the phloem necrosis virus was noted the past summer, the insect control experiments associated with this disease have been concerned with groups of insects and not with any particular species. Practically all known insect vectors of other virus diseases of plants belong to the group having sucking mouth parts; so particular attention has been given to the members of this group commonly found on elms.

The following experimental results have been obtained: Elm-sucking insects are readily killed by DDT spray residues. A DDT concentration of one per cent is necessary if the residue is to remain effective 100 or more days. Both leaf surfaces must be well covered with spray. Emulsions are more

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effective than wettable powders and all new foliage produced after the first spray application must be treated.

Controlling Lawn Weeds.

Homer L. Jacobs, of the Davey Tree Expert Co., Kent, was unable to be present, and his discussion of "2,4-D and Other Weed Killers for Shrub Control on Right of Ways and Other Areas" was omitted from the program.

A talk on "Up-to-date Information on the Use of 2,4-D and Other Weed Killers for the Control of Lawn Weeds" was given by C. R. Runyan, superintendent of Spring Grove cemetery, Cincinnati. He stated that in less than three years, 2,4-D has become the number one turf weed killer. The various forms of 2,4-D, from the acid to the soluble salts, give about the same results on turf weeds with few exceptions, if compared on the basis of the actual 2,4-D present. Because of its economy and ease of handling, probably more of the sodium salt form has been used in large-scale work than other forms, followed by the ammonium salt, the esters and amines. The sodium salt may be purchased as such, or the acid may be purchased and converted into the sodium salt in the spray tank by use of alkalis.

For each 100 gallons of spray desired, seven ounces of sodium bicarbonate are added to three to five gallons of water in the tank. When dissolved, fourteen ounces of 2,4-D (acid) are added, and the whole mixture is agitated. As soon as the reaction is completed, which takes from five to ten minutes, the rest of the water is added, and the material can be applied. This gives a one-tenth of one per cent solution. Mr. Runyan prefers double-strength (two-tenths of one per cent) solutions for resistant weeds, and this may even be increased to four-tenths of one per cent for wild onion and wild garlic, which should be sprayed in late winter or in early spring at the latest.

The best time to apply treatment for dandelions is not necessarily when they are in bloom. A treatment at that time kills the plants but not the cloud of seeds from neighboring areas. A double-strength solution applied in the fall at the end of the crab grass season and after the dandelion seeds have been distributed will give better results. Neither is spring always the most practical time for treating common and narrow-leaved plantain and other turf weeds. Where crab grass is a problem, treatment in the spring may produce more damage from crab grass than the broad-leaved weeds that are destroyed.

Seeding operations should be de-

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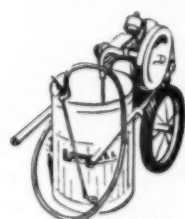
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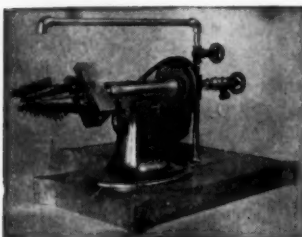
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layed for at least two weeks and longer in dry weather after applications of 2,4-D.

High-strength mist applications have much to recommend them. Less material to haul for the area to be sprayed means a saving. Further developments along these lines may be expected soon. Whatever form of 2,4-D is used, drift must be prevented. The higher the concentration the more important this is. Reports of damage from drift are all too frequent.

Some broad-leaved weeds and most weed grasses do not respond to 2,4-D. Some examples are wood sorrel, common violet, one species of common chickweed, crab grass, goose grass and nimble Will.

Spray tanks including hose and nozzles must be thoroughly cleaned if the equipment is to be used for other spraying operations. One pint of household ammonia to several gallons of water seems to be as good an agent with which to clean equipment as any. Ammonium nitrate or ammonium sulphate also can be used for this purpose.

Mr. Runyan stated that Sinox, Lawn Sinox, Elgetol and Krenite are dinitro cresylates that are useful in weed control. Some drawbacks to their use are that they are all yellow dyes with an affinity for animal fibers, and rubber gloves are necessary if yellow hands are to be avoided; they are slurries, pastes, and difficult to use accurately in small amounts unless stock solutions are made up. A ten per cent solution of the material as purchased makes a good stock solution.

An actual spray strength of one per cent for Sinox and one and one-quarter to one and one-half per cent for Lawn Sinox, Elgetol and Krenite were recommended. One to two pounds of ammonium sulphate per 100 gallons of spray activates the material; at least that is true of Sinox. Rates of application vary with the amount of foliage, and three to five gallons per 1,000 square feet give coverage in all but exceptional cases.

At those strengths these dinitro compounds are more effective than 2,4-D against shepherd's-purse, red dead nettle and knotweed. They also eliminate chickweed. They kill ½ to ¾-inch crab grass seedlings in the second to third leaf stage, although a second and sometimes a third application is required. Goose grass or silver crab grass also yields to these compounds. They are the only effective chemical controls for nimble Will up to this time. Usually the treatment for nimble Will can be timed to coincide with the first application for crab grass.

There is little danger of damage to grass with spring applications, but fall

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treatments should be preceded by artificial irrigation if the soil is dry. Unless a fair amount of soil moisture is present, damage to bluegrass is likely.

Mr. Runyan said that sodium arsenite and arsenic acid remain the cheapest and surest chemicals for controlling severe crab grass infestations. If they are correctly applied at the right time (August 10 to 20), no damage other than temporary damage is done to the bluegrass.

Only good results should be obtained if the following precautions are observed. Apply not over four ounces of sodium arsenite per 1,000 square feet in just enough water to wet the foliage. Avoid overlapping by using strings as guide lines, since overlapping will cause injury. Do not apply during excessively hot weather (90 degrees or above). Do not apply within twenty-four hours after the grass has been mowed.

Mr. Runyan stated that isoprophyl-phenyl carbamate (IPC) had been introduced as a control for quack grass, but the results so far have been irregular. Ammonium trichloroacetate seems to offer more possibilities for control of quack grass. Phenyl mercuric acetate was introduced with great fanfare as a foolproof control for crab grass. So far the results have not justified the cost, but it may be

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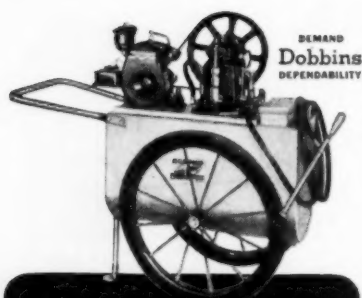
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more effective if applied in the spring as the crab grass germinates.

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Estimating Contracts.

Edward W. Richard, landscape contractor, Dover, O., spoke on "Estimating Large Seeding and Planting Contracts." He suggested that the following items be considered when making planting estimates: The cost of plant materials; the delivery cost plus cost of the operator of the truck and heeling time; the cost of digging holes, depending on the size, location and type of soil and the amount of soil needed for backfilling; the cost of placing the plant, and the costs of watering and of mulching to save watering. To the total add ten per cent as a margin of safety against unforeseen difficulties.

For estimating seeding costs, he suggested that consideration be given to the cost of the seeds, which includes cost of storage, inoculation, germination, delivery and storage on the job; the cost of fertilizer and lime and their application; the cost of straw and its application including pegging and twining to hold the straw in place, and the cost of labor and equipment to be used on the job. Then add twenty per cent as a margin of safety.

Mr. Richard said that it was advisable to become well acquainted with the engineers in charge of a highway construction job, since each party could be of considerable assistance to the other in completing the job. The specific plans of the contract often are not quite right, and the engineer may permit slight changes to be made. It is often cheaper to overdo a practical phase of the job, such as digging deeper or providing drainage, to avoid future troubles.

He advised that the time during winter should be spent in preparing for the next season's jobs, locating materials and developing new equipment for overcoming peculiar planting problems.

Modern Landscape Plantings.

An interesting discussion on "Modernizing Landscape Plantings" was given by Henry Pree, landscape architect, Cleveland. Mr. Pree stated that conditions change, but the fundamentals of good landscaping remain the same. Compared with other artists, the landscape architect is handicapped to some extent because he must use shapes, textures and colors that already exist.



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Most landscape plantings are made for immediate effect, and the job is sold again ten years later under the disguise of modernizing the planting. It might be better to plant good, slow-growing types that will reach their full beauty at some future date.

The average client wants a little of everything, and the landscape man should direct the client's desires toward the better types of plants and reduce the number of types desired if possible.

Mr. Pree said that there are two groups of planting jobs now available, existing plantings which need renovating and proposed plantings for new small homes. When confronted with an existing planting, he suggests that one try to save the better types of plants, such as dogwoods and lilacs, and load the rest of the plants on a truck and haul them to the dump.

Keep the landscape plan dignified and simple. Choose plants that will give the desired effect without extra care and will grow well in their location. Mr. Pree would rather have one good dogwood in plenty of space than ten crowded ones. Give the lawn just as much space as the area will permit. It should be smooth, simple in shape, unobstructed and all in one piece.

Gardens that are unbroken and rectangular are the easiest to maintain. It is preferable to be able to reach the border from both sides, and leave the selection of the perennials to the client, if possible.

Mr. Pree stated that it is desirable to make a simple planting at the front of the property, although many people feel that this is the place to impress the neighbors. Use as few plants as possible, but try to create a balance. Build up the corners, but not too high, and have a few blooming shrubs at the corners. Why not use two or three viburnums or *Cercidophyllum japonicum* for this purpose? Frame the house with two or three trees. For this purpose, Mr. Pree is partial to small flowering trees. Create balance by height and type of tree. Use a ground cover to complete the planting in front of a house. Six to eight shrubs growing out of a ground cover instead of many plants in a limited space are Mr. Pree's preference. Use slow-growing plants that improve with age. Do not oversell and chase other prospective buyers to some other nurseryman.

A landscape clinic followed, with Victor H. Ries, of the department of horticulture, Ohio State University, as leader and Mr. Pree, Harvey Bicknell, Bicknell Horticultural Service, Cleveland, and B. H. Kleinmaier, Bur-

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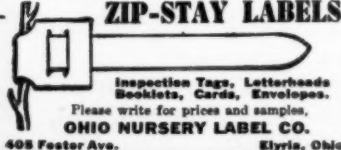
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well Nurseries Co., Columbus, as consultants.

According to these men, overgrown foundation plantings are sometimes the fault of a landscape man who recommended poor plants, sometimes the fault of a nurseryman who had poor types of plants of which he wanted to dispose and often the fault of the owner who spent most of his money before planting time and wanted the cheapest plants he could buy.

When the client has limited funds to invest in planting, the nurseryman should sell better types of plants in small sizes or develop a long-range program whereby the client can obtain a few larger plants of the better types each year until the planting is completed. In planning for future effects, the planting, with the exception of trees, should reach its maximum beauty in about ten years. Recommend only the best shade trees, even though they are slow-growing. If a customer wants improper material, tell him what it will do. Then, if he insists on buying it, go ahead and sell it to him.

Hardy Woody Ornamentals.

W. R. Leslie, director of the Dominion agricultural experiment station, Morden, Man., Canada, gave an illustrated lecture on "Some Hardy Woody Ornamental Plants" at the Tuesday evening meeting. He showed some beautiful colored pictures of many new varieties of plants and gave a brief discussion of the color, habit of growth and origin of the individual plants.

Some of the newer varieties that he suggested were Almey, Sundog and Strathmore crab apples; the Prairie Sailor, Prairie Wren and Betty Bland roses; prairie and Russian almond; Manchurian pink weigela; tidy caragana, prestoniae lilacs, particularly Coral, Redwine, Freedom and Swanee varieties; Carleton and Valencia honeysuckles; Redman elder; red Amur tamarisk; Aurora false spiraea; Schubert chokecherry; Morden elm, and Morden spruce.

Mr. Leslie also showed pictures of several other plants which he considers worthy of much wider use than is now being made of them.

Mechanizing the Nursery.

An interesting talk on "Mechanizing the Nursery Business" was given by Charles W. Hetz, Fairview Evergreen Nurseries, Fairview, Pa. As a background and explanation of his use of mechanical equipment, Mr. Hetz explained the organization, crops grown, soil, etc., of his nurseries. It is a family-operated organization, and each member of the family has a particular job or division of the business

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for which he is responsible. The business is entirely wholesale, since it was decided that retail and wholesale businesses combined did not mix. Slow-moving items of nursery stock have been discarded, and only items for which there is a good demand are grown.

Labor has been and still is a headache. At present, Mr. Hetz said, they try to employ good men and use machinery whenever possible to increase efficiency and reduce the actual manual or heavy labor connected with a job. Everything possible is done to hold the men that they have trained, such as giving a bonus at the end of the year and providing satisfactory working hours. For this reason and because the various members of the family provide relatively close supervision of labor, Mr. Hetz feels that they are obtaining high efficiency from their labor.

At the Fairview Evergreen Nurseries the soil for growing nursery stock is light and well drained. This permits good root development and is helpful when tools are to be used. Cattle feeding is combined with the business, and the soil is heavily manured. Sludge is also hauled from the city of Erie. Mr. Hetz believes that one should spend about \$100 per acre in preparing new soil for the

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growing of nursery stock and that the nurseryman should know what fertilizer is needed and whether liming is necessary.

Irrigation is advisable, and watering should be carefully watched. Cuttings are planted directly from the greenhouse to the field at Mr. Hetz's nurseries, and when 100,000 liners or 1,000,000 seedlings are grown per acre, it is easy to see that the percentage of stand is an important factor in obtaining a profitable crop.

Plant pest control is an important phase of the business. The state nursery inspector is considered one of the most valuable men to the organization, because he finds the pests, tells where control measures are needed and recommends control measures.

The propagation section has been one of the most profitable parts of the business. It permits the nursery to have exactly the plants wanted, and the sale of surplus items often pays for the cost of propagating one's own stock.

Mr. Hetz discussed some tools that have been of value to this organization: A 2-row planter, made by combining two New Ideal planters for the purpose of planting lining-out stock, and a singlerow planter, which is an adaptation of the Holland celery planter and with which three operators can plant 5,000 pieces per hour. A 12-inch row with 4-inch spacing between plants is used, permitting the planting of 100,000 pieces per acre. A garden tractor is used for cultivating the plants.

Mr. Hetz believes that hoeing should be reduced to a minimum. Cultivators with cutoff shoes, five to six inches apart, set down to three inches are used to throw the soil away from the plant. This leaves only a 5 or 6-inch strip to be hoed. Special hoes made by welding potato hooks back to back permit cleaning out of weeds that are close to the plants. Weeds should be killed while young, before they become a real problem.

Light soil permits the use of a digger, and ten men can ball and burlap a carload of nursery stock per day using a digger. A 2-wheel cart carrying 100 trees and attached to a Farmall tractor is used to carry the stock to the end of the nursery row. Mr. Hetz believes that a wholesale nursery should dig and sell all its stock before it becomes too large to handle with a digger. Overgrown stock should be rooted out and the soil prepared for the next crop.

Several more common items of farm and nursery equipment that are being used were also mentioned. In conclusion, Mr. Hetz said that nursery tools represent a tremendous investment; so

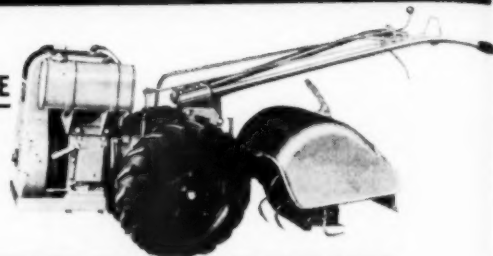
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one should be certain that an individual piece of equipment will be profitable before purchasing it. Equipment, such as a bulldozer, that is only

needed for special occasions often can be rented more cheaply than it would cost to own it.

Following Mr. Hetz's comments on

mechanization, Carl Kern, Wyoming Nurseries, Wyoming, O., spoke on "Nursery and Landscape Machinery, Tools and Gadgets." His talk will be published in full in a forthcoming issue.

Pest Control.

Dr. R. B. Neiswander, department of entomology, Ohio agricultural experiment station, Wooster, speaking on "Pest Control on Nursery Stock" said that taxus mealy bug can be controlled by spraying with Loro at a concentration of one to 400 in early spring. A second application should be made ten days later. Spruce mite on arborvitae and spruce can be controlled with Dowspray 17 at the rate of three-quarter pound per 100 gallons of spray material. Juniper webworm can be easily controlled with a driving spray of lead arsenate applied at the right time (April 15 to May 15). Peach tree borer can best be controlled by three applications of DDT applied at the rate of four pounds of fifty per cent wettable DDT per 100 gallons of water, beginning July 5 and repeated at 3-week intervals.

Dr. Neiswander showed several pictures of nursery insects and the damage they caused and experimental results of various control measures.

Experimental Work at Ohio State.

Dr. L. C. Chadwick, of the department of horticulture, Ohio State University, and three students from that department gave an interesting discussion of the results of some experimental work done at Ohio State University on propagation by cuttings, grafting practices, understocks for junipers and prestorage defoliation of some types of nursery stock. Dr. Chadwick told about the taxus plantation, which consists of 350 plants of eight-one different types at Wooster, with about twenty-five additional types at Columbus. An official test garden of the American Rose Society is located on the Ohio State University campus.

Various tests on soil improvement practices have been conducted. Ground corncocks have proved to be by far the best of the mulching materials tried. They hold moisture better than peat moss and maintain a more uniform moisture content. They also improve the soil aggregation and physical structure. Clean cultivation seems to be better for young nursery stock than the use of seeded crops, such as alsike clover.

Dr. Chadwick stated that tests have shown that earthworms give few of the benefits credited to them. Unless there is ample organic matter in the soil, the earthworms will not remain

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there, but if organic matter is present, earthworms will accumulate. Ample organic matter is more effective in improving soils than earthworms on the basis of these tests.

Two overhead watering systems have been tried for watering seedbeds. These are the Revere system and the Ohio State University nozzle. They seem to have considerable possibilities as improved methods of watering.

Evergreen grafts were found to unite just as well in an open grafting case when a Binks nozzle was used as they did in a closed grafting case. SF grade vermiculite was also found to be just as satisfactory as a plunging material as peat moss.

In a test with five scion varieties grafted on six different understocks for junipers, eastern red cedar proved to be the most satisfactory understock for most of the varieties used. Biota (arborvitae) and Andorra juniper proved to be the poorest understocks. The average growth on all varieties after three years was thirty-nine and seven-tenths inches for those grafted on red cedar and twenty-seven and one-half inches for those grafted on biota.

Various types of media, watering methods and lights have been experimented with in the propagation of cuttings. Vermiculite No. 2 (horticultural grade) and silica sands No. 7 and No. 5 have been tested with constant level, forced subirrigation and overhead methods of watering. No. 2 grade vermiculite has given the best results. Conventional overhead watering has proved best for narrow-leaved evergreens. The conventional greenhouse has given better results than opaque structures equipped with fluorescent lights for rooting of cuttings of narrow-leaved evergreens. In testing the effect of various colors of lights on the rooting of narrow-leaved evergreens, gold light gave the best results, with daylight bulbs a close second. Blue was poor.

Donald Hillenmeyer, Lexington, Ky., student at Ohio State University, reported on some tests with the rooting of Ilex opaca and mahonia. He found that a medium composed of fifty per cent silica sand No. 7 and fifty per cent vermiculite No. 2 gave the best quality and rooting percentage of holly when compared with each of these media alone. Cuttings of holly taken August 20 and September 20 have rooted better than those taken October 20 and November 20. Cuttings of mahonia taken in September died within ten days. Those taken in November have rooted to some extent.

Hiram Johnson, London, Ky., student at Ohio State University, reported on experiments comparing

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leaf bud cuttings with stem cuttings of *Viburnum rhytidophyllum* and *Rhododendron catawbiense* hybrids. In rhododendrons, the same percentage of rooting occurred with both methods, but the leaf bud cuttings rooted in twelve weeks, and seventeen weeks were required for the rooting of stem cuttings. In viburnum, eighty-five per cent rooting was obtained with stem cuttings compared to fifty per cent rooting with leaf bud cuttings.

Max Quillen, Waynesboro, Va., student at Ohio State University, reported on some prestorage defoliation tests. Adequate defoliation of several ornamentals was obtained in seven to ten days with two per cent Nacconal NR plus three per cent summer oil sprays. Defoliation of 1 and 2-year-old apple trees was obtained in seven to ten days with two to two and one-half per cent Nacconal NR plus three per cent summer oil, with no damage. The same results were obtained with roses and raspberries. Peaches seem to be more sensitive to the spray, and further experimentation is necessary before a recommendation can be made.

Soil Conservation.

An interesting talk on "Soil Conservation on the Nursery" was given by Arthur D. Slavin, chief of the regional nursery division, United States Department of Agriculture, soil

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Grinds, or
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Grinds manure, sod, tough and wet materials through rollers. Screens through perforated screens. Makes perfect compost of any material used for compost no matter how hard or wet or stringy. Ruggedly built for hard usage and to break up hard and tough materials. Long life and low operating cost.

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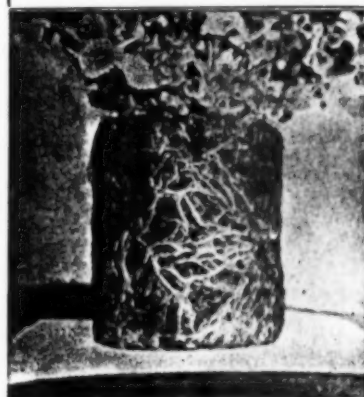
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A Wonderful Soil Builder



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Roots like these can be grown by anyone where Mel-lo Peat is used. See our ad in Classified Column.

MEL-LO PEAT CO., Willard, O.

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HOTBEDS WITHOUT FRAMES OR SASH

gain a month in spring by sowing early seed in open ground, over electric soil heating cable. Seeds grow fast in warm soil—have outdoor hardiness and vigor. 40-ft. cable for 3 to 20-ft. seed rows, \$1.40. 80-ft. cable for 3 to 40-ft. seed rows, \$3.20. Instant delivery postpaid at above prices.

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Plans Data

conservation service, Milwaukee, Wis. He believes that nursery crops place a greater burden on the soil than any other agricultural crop. Nursery stock is a clean-tilled crop and remains on the soil for several years. It is a root crop, and the soil or part of the soil is often merchandised with the crop. Nursery operations often require work when the land is wet, and nothing destroys soil condition more rapidly. Heavy equipment is frequently used, and this affects the physical structure of the soil.

He said that contouring and terracing alone are not a soil conservation program but merely a soil conservation practice. Soil conservation is the use and treatment of each acre of soil according to its ability to produce. It is soil management to maintain or increase fertility. Mechanical practices, such as contouring and terracing, save real estate by holding the soil on the property, but they do not increase fertility. Soil management to improve quality includes the use of soil-building crops, proper rotation, fertilization, soil amendments, green and animal manures, cover crops and mulches. Soil should be managed for tilth, that is to improve the physical condition. Fertility will usually come automatically when proper tilth is maintained.

About seven years are required to put a soil conservation program into complete effect. A complete soil survey of the land is made, which shows the soil types, slopes and degree of erosion. This survey of basic resources shows the production possibilities. One cannot change the inherent ability of the soil to produce. Then a program is developed that will provide the best use of all the soil on the nursery.

Mr. Slavin believes that a good rotation for nursery stock consists of three years of sod followed by the nursery crop. One nursery that followed this rotation found that it could save a year in producing a marketable crop and at the same time obtain a better stand and better quality.

T. C. Kennard, state conservationist, United States Department of Agriculture, soil conservation service, Columbus, O., explained the functions of the Ohio state conservation service and the facilities that are available to Ohio nurserymen.

The Nursery Office.

"Keeping Your Hand Too Close to Your Face" was the title of a talk on operating the office of a nursery business by Norman J. Scott, manager of Brookdale-Kingsway, Ltd., Bowmanville, Ont., Canada. He suggested that you place your hand in front of and close to your face. You can see nothing

NURSERY HAND TRUCK

This Garden Shop Hand Truck is so well known today that few nurseries are without it. Many have several, use one on each delivery truck, others in the nursery. Material shortages have slowed our production, but we are shipping as quickly as possible. Early orders are suggested, as we ship in same order that we receive orders, and demand for nursery equipment is great because of the rapid expansion of the nursery business.

SPECIFICATIONS

Equipped with Jumbo Balloon Tires and Tubes, 12x4 inches. Specially Designed Curved Nose. All-Steel Construction, electrically welded. Weight 56 pounds. Over-all Length 63 inches. Over-all Width 27 1/2 inches. Capacity 28-in. Ball weighing 600 pounds.



The Garden Shop's
SMALL HAND TRUCK
Pat. No. 110110

\$37.50 F.O.B. Kansas City.

THE GARDEN SHOP, Inc.

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A WORD ABOUT

LAWN MARVEL

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For
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LAWN MARVEL is a scientifically compounded formula designed to give the best results to your trees, shrubs and lawns throughout the growing season. The nutrients your plants require are contained in LAWN MARVEL in what is considered by foremost horticultural authorities to be the proper proportions to sustain and nurture plants properly.

Use it yourself; sell it to your customers; write for prices.

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ing as long as your hand is close to your face, but just as soon as you remove your hand to a distance at which your vision gives proper perspective, a great deal is revealed. He talked about this proper perspective, with special reference to the office or clerical aspect of the nursery business.

Nurserymen at heart are growers, but a nursery business consists of more than just growing stock. More money can be lost through the office than can possibly be made in the field. The past ten years have seen a tremendous mechanization of field work in the nursery in the way of tractor equip-

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for Park Trees, Display Gardens, Field use of Greenhouse Pots or Benches. Proven by thousands of users and every one a booster! You'll like them, too. They will stand for years at one marking, or may be changed any number of times for various markings. Send for catalogue and prices of the complete **PERFECTION LINE.**
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ment and all mechanized gadgets which will do everything from plant to harvest, but are the offices we have today running efficiently? If not, why not? The more detailed work that can be done in the office, the more efficient will be the field work.

Mr. Scott stated that an efficient

CLOVERSET POTS...



The six advantages listed to the right have all been proved at Cloverset Flower Farm during the past 25 years. Long before Cloverset Pots were offered to other nurserymen they were proved for **Easier Selling, Greater Customer Satisfaction and Increased Profit** while giving away the low-cost pot with the plant.

Carrying away the plant, which was growing and blooming, in the pot appealed to our customers. They liked to see what they were getting and they could disregard the planting season and set the plants in the garden at their convenience. They were eager and willing to pay much more for plants already started in Cloverset Pots. This plan for **Easier Selling** at much **Greater Profit** has built a thriving, profitable CASH-and-CARRY business in roses, shrubs, perennials, vines and other small nursery stock. **YOU CAN DO THE SAME.** Our **FREE BOOK** tells you how. Send for it today.

1. Builds **CASH-and-CARRY TRADE**
2. Extends **SELLING SEASON** SEVERAL MONTHS
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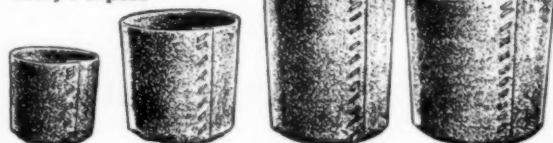
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SEND ONLY 25c FOR SAMPLES

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Correct Size for
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For perennials
and greenhouse.

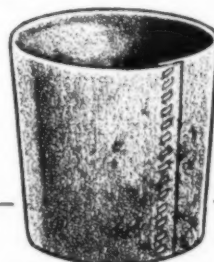
No. 1
For perennials
and MUMS.

No. 2
For roses
and shrubs.

No. 3
For large shrubs
and transplanting.

COMPARE THESE PRICES (STANDARD HEAVY)

Price List	No. 0	No. 1	No. 2	No. 3
Height	5 1/2 ins.	6 1/2 ins.	9 1/2 ins.	9 ins.
Diam. Top	5 ins.	6 ins.	7 ins.	8 ins.
Bottom Diam.	4 1/2 ins.	5 1/2 ins.	6 1/2 ins.	7 1/2 ins.
Corresponding Clay Pot	6-in.	7-in.	8-in.	9-in.
Approx. Weight Per 100	35 lbs.	52 lbs.	78 lbs.	88 lbs.
Per 100	\$3.00	\$4.25	\$4.75	\$5.25
Per 1000	\$27.50	\$40.00	\$45.00	\$50.00



NEW No. 4 POT available soon

This larger pot is ideal for large shrubs, fruit trees and evergreens. Send 25c for sample which will be shipped postpaid as soon as available.

Read the true story and history on starting and selling plants in bloom and full foliage for greater profits — the Cloverset way. Over twenty photo pictures and complete descriptive material taken from our own profitable testing grounds.

ORDER NOW!
**FREIGHT SHIPMENTS
ARE SLOW**

Ask about **DISCOUNTS** and **FREIGHT SAVINGS** on car-load and group car shipments.

Practical Nurserymen for 25 years.

CLOVERSET FLOWER FARM

ERNEST HAYSLE & SON

105th Street and Broadway, Kansas City 5, Mo.

A. F. S. "Easi-Off" WOOD PLANT BANDS



Saves time and labor. Bands are removed without cutting; therefore the dirt ball and roots are not disturbed . . .

CAT.	Size in inches	Weight per 1000	Per 1000
No. M-310	1 1/4 x 1 1/4 x 2 1/2	12 lbs.	\$3.75
No. M-320	2 x 2 x 2 1/2	15 lbs.	4.35
No. M-340	2 1/2 x 2 1/2 x 3	20 lbs.	4.65
No. M-350	3 x 3 x 3	21 lbs.	4.95
No. M-360	3 x 3 x 4	32 lbs.	5.15
No. M-391	4 x 4 x 4	40 lbs.	5.60

Packed 1000 to the carton.
We do not break the cartons.

LIGHT WOOD FLATS

For handling and shipping our 1 1/4-inch and 2-inch sizes of Plant Bands.

	Per 100
M-370; holds twelve 1 1/4-inch Bands	\$2.95
M-390; holds twelve 2-inch Bands	3.30
M-392; holds twelve 2 1/2-inch Bands	3.95
M-393; holds six 3-inch Bands	3.85
M-394; holds six 4-inch Bands	4.25

Packed 100 to the carton. We do not break cartons. Shipped promptly from the factory in Michigan.

AMERICAN FLORIST SUPPLY CO.

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1335 W. Randolph St. Chicago 7, Ill.

IT COSTS NO MORE (and in most instances less)

FOR OUR PACKING OF Nursery Burlap Squares and Rolls

Write for prices and samples.

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WOOD LABELS

For Nurserymen

DAYTON FRUIT TREE LABEL CO.

Ray and Kiser Sts. DAYTON, O.

BAMBOO CANES RAFFIA — BULBS

McHUTCHISON & CO.

92 Chambers St. New York, 7, N.Y.

office must provide good working conditions for the office staff. It should have proper light, temperature and humidity, comfortable chairs and attractive decoration and should be kept clean. If possible, every person should have a separate office.

To increase efficiency, he suggested payment of employees by check, not cash, with payment every two weeks instead of every week, and the use of a check-writing machine and a check signer. The latter will not only save hours of time over a period of a year, but will remove another tiresome and monotonous job.

Use modern noiseless feather-touch typewriters; they will pay dividends in the number of letters that are turned out during a day. Investigate the possibility of using the electro-matic typewriter, it will make up to twenty carbon copies at a single typing. A new automatic typewriter definitely has a place in the nursery business. This typewriter will go ahead and type individually stock paragraphs or a preset letter just as if each one had been personally typed.

Mr. Scott also recommended a dictating machine, calculating machine, extension telephones, plenty of space for a good cross-index filing system and an intercommunication system to keep in touch with all parts of the organization. It can also be used as a burglar alarm.

You should have a duplicating machine and, if possible, a room where all duplicating supplies, the duplicator and everything that is connected with duplicating can be kept. A postage meter will save much labor by stamping and sealing the envelopes. An electric time clock will pay for itself the first year. There should be plenty of shelf space to store supplies. There are many other small gadgets, which all in all, add up to an efficient operation within the nursery office.

It is a good policy to have your machines serviced at regular intervals by the company which sells them. When kept in good condition, a machine will serve you much better than a man. Proper equipment will contribute greatly to the efficiency and morale of the office staff and result in a more efficient nursery office.

ADJACENT to their nursery at 636 Colusa street, Willows, Cal., Mr. and Mrs. G. L. Denny have opened a retail florists' shop.

THE mailing address of the Azalea-land Nursery, operated by Paul E. Neuners, has been changed from Route 10, Box 563, to Route 9, Box 563, Milwaukie 2, Ore.

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Knives — Pruning Tools
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Write for Bulletins.

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Rocky Hill, Conn.

Our nurseries are located at Rocky Hill and Cromwell, on the state highway between Hartford and Middletown. See signs. 300 acres of choice young trees and hedge plants that have been properly root-pruned and sheared.

We have listed only the items we can furnish by the carload. Many other desirable items not listed invite your inspection.

Stock is guaranteed satisfactory, but we cannot consider claims after five days. We solicit your patronage and cordially invite you to visit us at any time.

Terms and conditions adopted by American Association of Nurserymen. 2 per cent, 10 days; 30 days net.

★BERBERIS THUNBERGI.

Barberry.

2-yr. untr.

Per 1000

10 to 12 ins.	\$ 40.00
12 to 15 ins.	60.00
15 to 18 ins.	80.00
18 to 24 ins.	100.00

Write for prices on 10,000 and up.

★BERBERIS THUNBERGI.

Barberry.

2-yr. trans.

Per

Per

100

1000

15 to 18 ins.	\$20.00	\$150.00
18 to 24 ins.	25.00	200.00

BERBERIS ATROPURPUREA.

Red Barberry.

4 to 8 ins., liners. 40.00

1-yr. seedlings,

6 to 10 ins., all 3 br.

and up 20.00 100.00

Write for prices on 10,000 and up.

★LIGUSTRUM OVALIFOLIUM.

California Privet.

2-yr. extra-heavy.

18 to 24 ins. 10.00 60.00

2 to 3 ft. 12.00 80.00

3 to 4 ft. 16.00 120.00

Write for prices on 10,000 and up.

★TSUGA CANADENSIS,

SPECIMENS.

10

100

rate

rate

Canadian Hemlock.

30 to 36 ins., B&B, heavy. \$3.10 \$3.00

3 to 4 ft., B&B, heavy. 4.10 4.00

JUN. CHINENSIS PFITZERIANA. 10 100

Pfitzer Juniper.

★18 to 24 ins., B&B. rate rate \$2.10 \$2.00

2 to 3 ft., B&B. 2.60 2.50

JUN. EXCELSA STRICTA.

Greek Juniper.

★18 to 24 ins., B&B. 1.60 1.50

24 to 30 ins., B&B. 2.10 2.00

JUN. C. HIBERNICA.

Irish Juniper.

5 ft., B&B. 1.60 1.50

JUN. SQUAMATA MEYERI.

Meyer's Juniper.

18 to 24 ins., B&B. 2.60 2.50

THUJA OCCIDENTALIS PYRAMIDALIS.

Pyramidal Arborvitae.

4 to 5 ft., B&B. 3.10 3.00

5 to 6 ft., B&B. 3.60 3.50

6 to 7 ft., B&B. 4.10 4.00

THUJA OCCIDENTALIS.

★American Arborvitae.

2½ to 3 ft., B&B. 1.60 1.50

3 to 4 ft., B&B. 2.10 2.00

4 to 5 ft., B&B. 3.10 3.00

THUJA OCCIDENTALIS

GLOBOSA.

★Globe Arborvitae

18 to 24 ins., B&B. 1.30 1.20

24 to 30 ins., B&B. 1.50 1.40

TAXUS CUSPIDATA CAPITATA.

★Upright Yew.

24 ins., B&B. 4.10 4.00

30 ins., B&B. 5.10 5.00

36 ins., B&B. 6.10 6.00

TAXUS CUSPIDATA.

Spreading Yew.

★18 to 24 ins., B&B. rate rate \$3.10 \$3.00

24 to 30 ins., B&B. 4.10 4.00

TAXUS HICKSI.

Hicks Yew.

30 ins. 4.10 4.00

★TAXUS INTERMEDIA.

15 to 18 ins. 4.10 4.00

RETINOSPORA PLUMOSA.

Plumosa.

18 to 24 ins., B&B. 2.10 2.00

24 to 30 ins., B&B. 2.60 2.50

30 to 36 ins., B&B. 3.10 3.00

RET. PLUMOSA AUREA.

Plumosa Aurea.

18 to 24 ins., B&B. 2.10 2.00

24 to 30 ins., B&B. 2.60 2.50

30 to 36 ins., B&B. 3.10 3.00

MUGHO PINE.

18 to 24 ins., B&B. 1.35 1.25

★ACER PLATANOIDES.

Norway Maple.

2-in., 8 to 10 ft. 5.10 5.00

★ACER PLAT. SCHWEDLERI.

Schwedler Maple.

2-in., 8 to 10 ft. 6.10 6.00

★EUROPEAN MT. ASH.

2½-in. 5.10 5.00

All evergreens B&B at list prices.

Dig your own at 20c less per tree.

No boxing.

Deliveries—full truckload and carload only, or call for your own stock.

★ All items starred ★ can be certified for western shipment.

LAST CALL FOR LINING-OUT ORDERS

Because of the extreme shortage of all lining-out Evergreens, we must ask that you have your order in before April 15 for all stock to be shipped this Spring. Please give us a chance to afford you our best service by making up your "Want List" NOW.

LINING-OUT STOCK		Per 100	Per 1000
Concolor Fir	6 to 8 ins., xx frames	\$30.00	.....
Pfitzer Juniper	4 to 6 ins., x flats	20.00	\$170.00
Pfitzer Juniper	4 to 6 ins., xx frames	27.00	240.00
Vonehron Juniper	4 to 6 ins., x flats	20.00	170.00
Red Cedar	4 to 6 ins., o	6.00	50.00
Black Hills Spruce	4 to 6 ins., xx frames	20.00	.....
Black Hills Spruce	6 to 8 ins., xx frames	23.00	200.00
Black Hills Spruce	8 to 10 ins., xx frames	25.00	220.00
Colorado Spruce	6 to 8 ins., xx frames	23.00	200.00
Colorado Spruce	8 to 10 ins., xx frames	27.00	240.00
Douglas Fir	6 to 8 ins., xx frames	25.00	220.00
Douglas Fir	8 to 10 ins., xx frames	28.00	250.00
Douglas Fir	12 to 15 ins., xx frames	32.00	.....
Douglas Fir	15 to 18 ins., xx field	63.00	600.00
Douglas Fir	18 to 24 ins., xx field	73.00	700.00
Upright Japanese Yew	6 to 8 ins., xx frames	45.00	.....
Upright Japanese Yew	8 to 10 ins., xx frames	50.00	.....
Upright Japanese Yew	10 to 12 ins., xx frames	60.00	.....
Spreading Japanese Yew	4 to 6 ins., x flats	18.00	150.00
Spreading Japanese Yew	8 to 10 ins., x frames	45.00	420.00
Spreading Japanese Yew	10 to 12 ins., xx frames	55.00	.....
Spreading Japanese Yew	10 to 12 ins., xx field	80.00	.....
Spreading Japanese Yew	12 to 15 ins., xx field	90.00	.....
Brown's Yew	8 to 10 ins., xx frames	45.00	420.00
Brown's Yew	10 to 12 ins., xx field	85.00	.....
Hatfield Yew	10 to 12 ins., xx frames	65.00	.....
Intermedia Yew	6 to 8 ins., xx frames	43.00	400.00
Intermedia Yew	10 to 12 ins., xx field	90.00	.....
Dwarf Japanese Yew	6 to 8 ins., xx frames	45.00	420.00
Dwarf Japanese Yew	8 to 10 ins., xx frames	60.00	.....
Dwarf Japanese Yew	10 to 12 ins., xx field	85.00	.....
Hill Pyramidal Yew	6 to 8 ins., xx frames	43.00	400.00
Hill Pyramidal Yew	8 to 10 ins., xx frames	45.00	420.00
Media No. 1 Yew	6 to 8 ins., xx frames	43.00	400.00
Media No. 1 Yew	8 to 10 ins., xx frames	45.00	420.00
Hicks' Yew	4 to 6 ins., x flats	18.00	150.00
Hicks' Yew	6 to 8 ins., xx frames	43.00	400.00
Hicks' Yew	8 to 10 ins., xx frames	45.00	420.00
American Arborvitae	8 to 10 ins., xx frames	20.00	170.00
American Arborvitae	10 to 12 ins., xx frames	23.00	200.00
American Arborvitae	10 to 12 ins., xx field	35.00	300.00
Pyramidal Arborvitae	4 to 6 ins., x flats	20.00	170.00
Pyramidal Arborvitae	8 to 10 ins., xx frames	33.00	300.00
Pyramidal Arborvitae	10 to 12 ins., xx frames	35.00	320.00
Hemlock	4 to 6 ins., x flats	15.00	120.00
Hemlock	6 to 8 ins., x flats	17.00	140.00
Hemlock	8 to 10 ins., xx frames	40.00	.....
Hemlock	10 to 12 ins., xx frames	43.00	.....
Hemlock	12 to 18 ins., xx field	60.00	.....
Japanese Spurge	4 to 6 ins., xx frames	14.00	110.00
Bigleaf Wintercreeper	6 to 8 ins., xx flats	20.00	170.00
Bigleaf Wintercreeper	8 to 10 ins., xx flats	23.00	200.00

Sold in Multiples of 25 only in variety and size.

25 of the same variety and size at the 100 rate; 250 at the 1000 rate.

Each x indicates one transplanting; o indicates seedlings.

D. HILL NURSERY COMPANY

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